

FIG. 1A

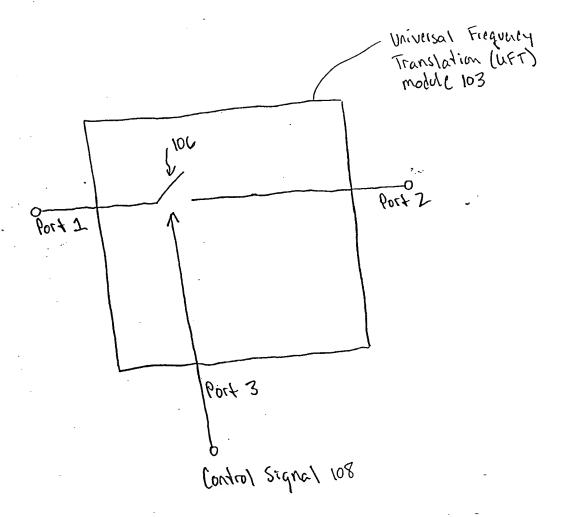


FIG. 1B

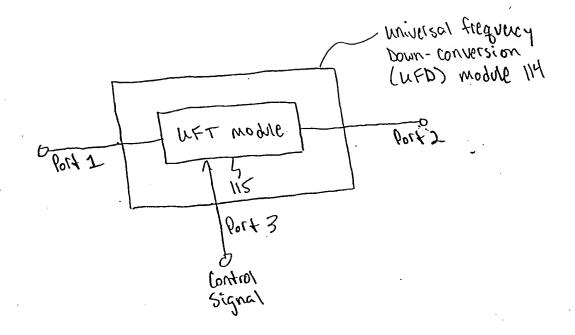


FIG. 1C

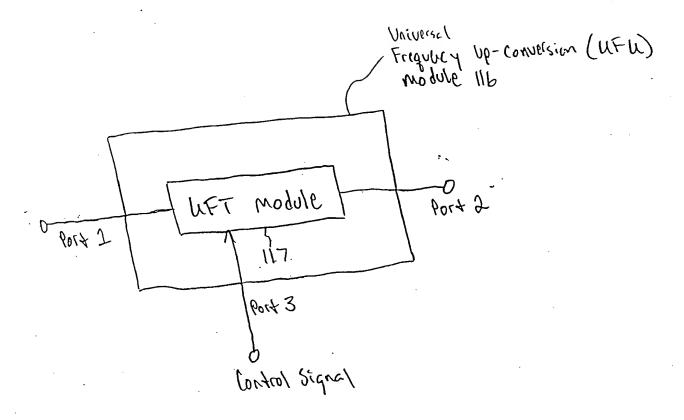


FIG. 10

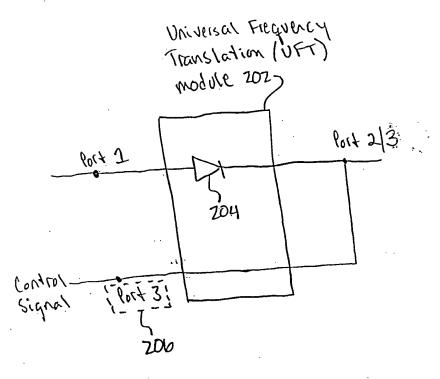


FIG. 2A

Control signal

Fig. 2B

FIG. 3

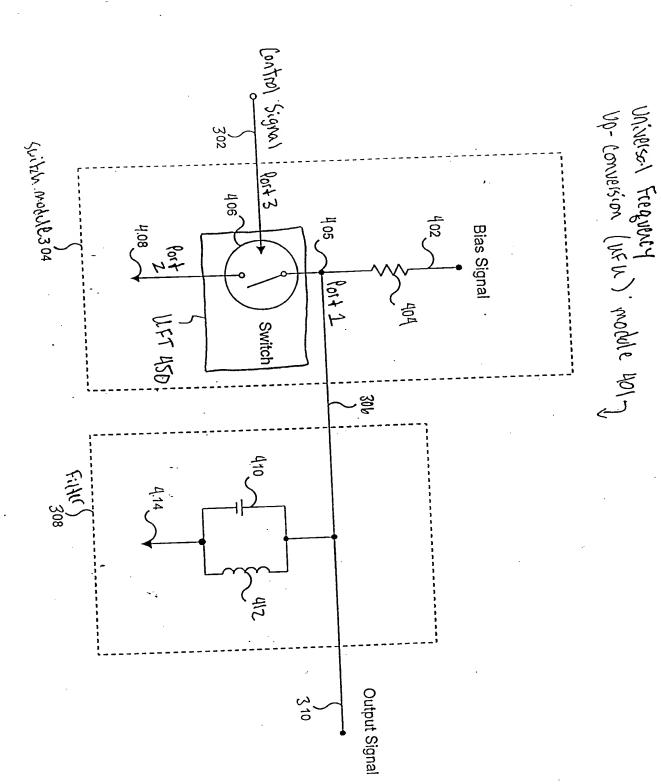


FIG. 4

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9809-02.vsd/47

Filter

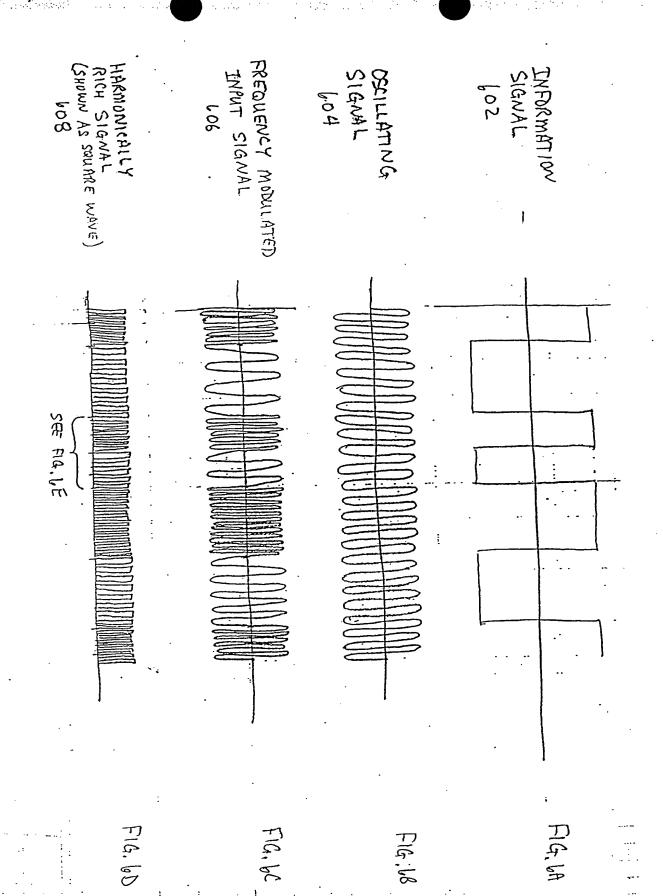
30

Output Signal

308

502

FIG. 5



EXPANDED VIEW OF EXPANDED VIEW OF

SIGNAL DIO
(SHOWN SEPPINATION)

SIGNAL WIZ

HARMONICS OF

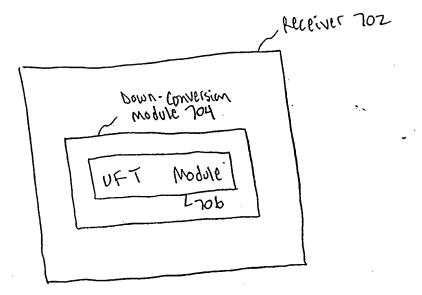
(หางพ่า รถสหาสาราง)

FON DAMENTA L see fig. bf FUNDA MENTAL FREGUENCY 612A OM SEE FIG. 6 马 THIRD HARMONIC THIRD HARMONIC 610B 6123 FIFTH HARMONIC FIFTH HARMONIC 6.125 2019 FIG WE 176 66

HARMONICS OF SIGNALS (SHOWN BUT C'MULTANEOUSLY BUT SUMMED) SIGNAL OUTPUT SIGNAL 910 9105

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FI6.7

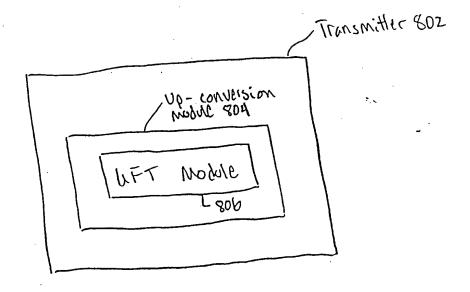
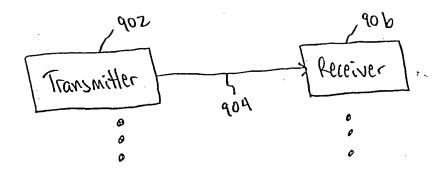


FIG. 8



FI6.9

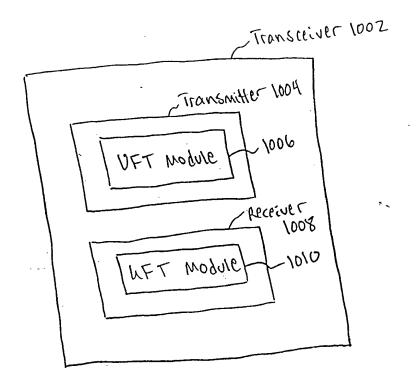


FIG. 10

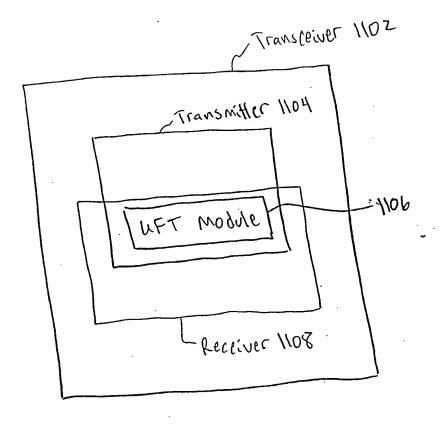


FIG. 11

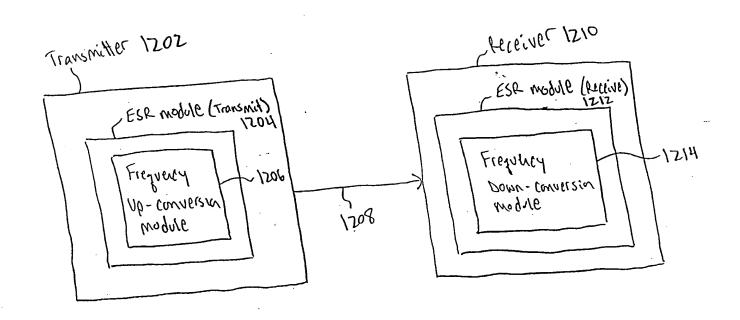


FIG. 12

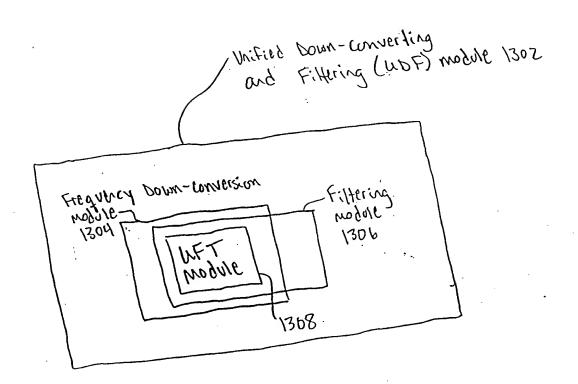


FIG. 13

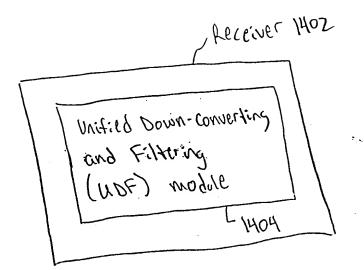
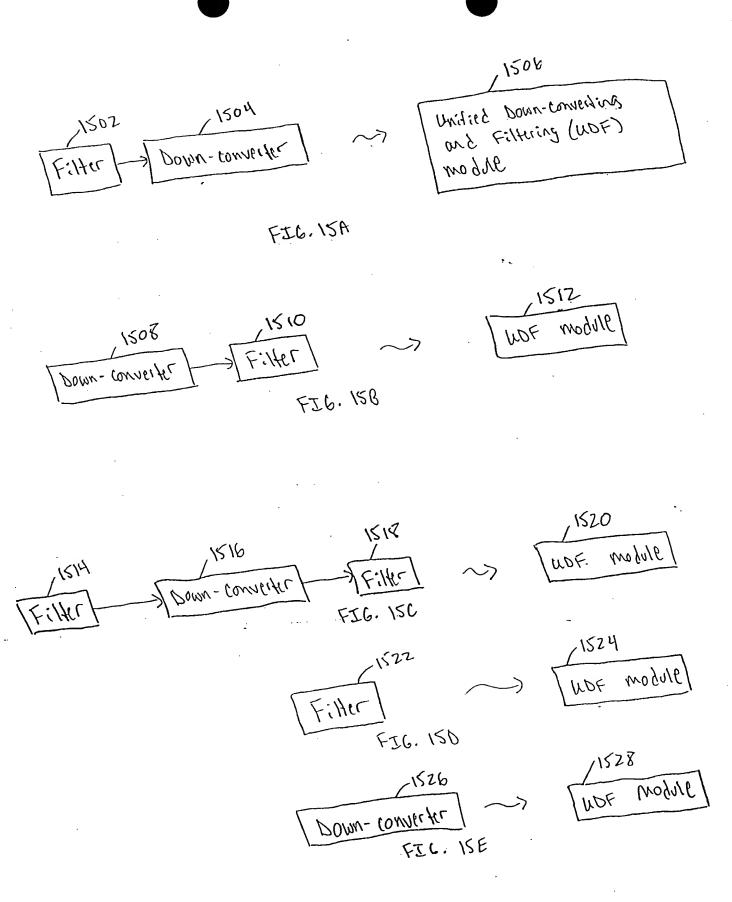


FIG. 14



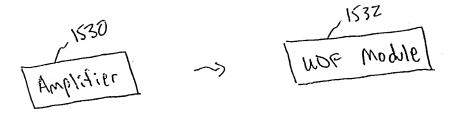


FIG. ISF

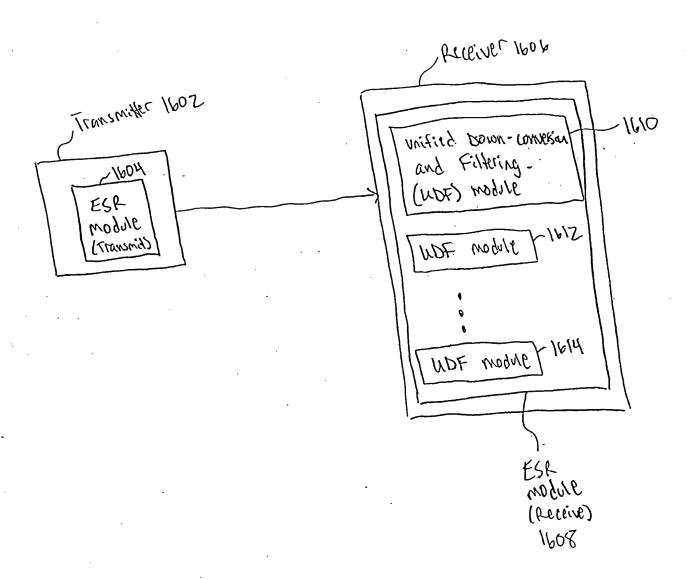


FIG. 16

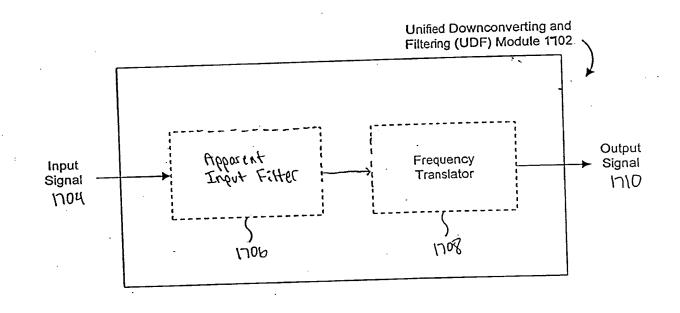


FIG. 17

Time	t-1 (rising edge of ϕ_1)		t-1 (rising edge of ϕ_2)		t (rising edge of ∳₁)		t (ri sing edge of ¢₂)		t+1 (rising edge of ϕ_1)	
Node		Ψ ₁ / 1804	VI _{t-1}	<u>1808</u>	VI,	<u> 1816</u>	V۱ _t	<u> 1826</u>	VI _{t+1}	1838
1902	VI _{t-1}	1004	VI _{t-1}	1810	VI _{t-1}	<u> 1818</u>	VI _t	<u>1828</u>	.VI _t	<u>1840</u>
1904	1./0	<u>1806</u>	VO ₍₋₁	1812	·VO	1820	VO _t 's	1930	VO ₍₊₁	1842
1906	VO _{t-1}	1000	VO _{t-1}	1814	 	<u> 1822</u>	VO _t	1832	VO,	<u> 1844</u>
1408		1807			VO _{t-1}		VO _{t-1}	<u>1834</u>	VO,	<u>1846</u>
1910	ļ	<u>1001</u>	 	<u> 1815</u>	-		VO _{t-1}	1836	VO _{t-1}	1848
1912	ļ <u> </u>		 	1010	-				VI _t -	1850
1918	-		-	·	-		\		0.1* 0.8*	VO _t - VO _{t-1}

FIG. 18

The first term that the fi

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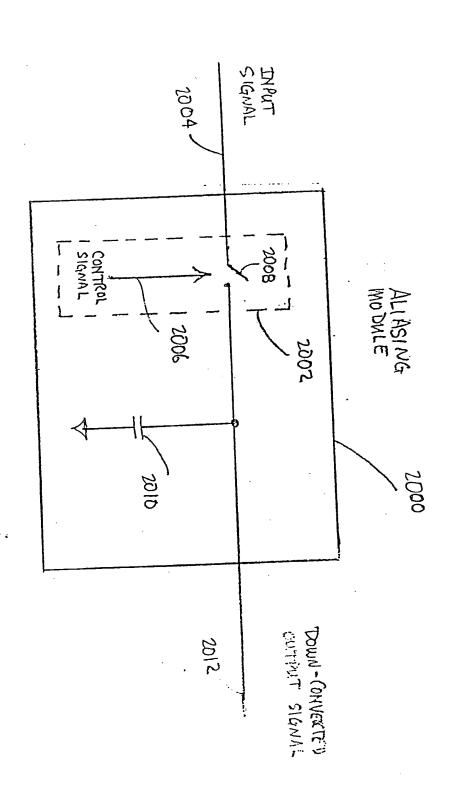


FIG. JOA

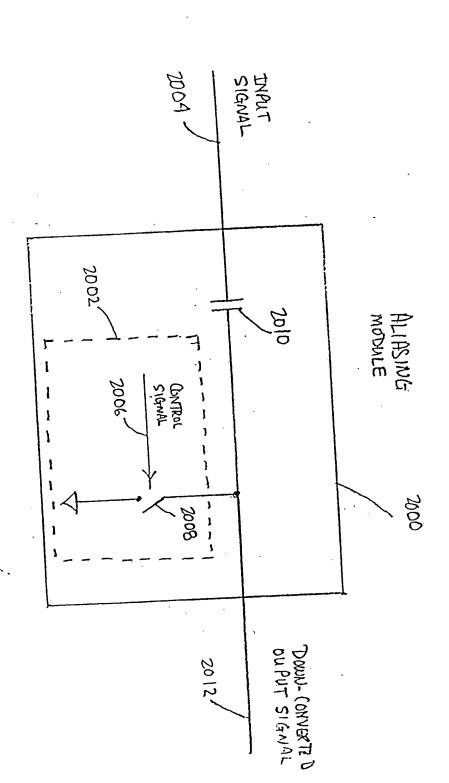


FIG. 20A-1

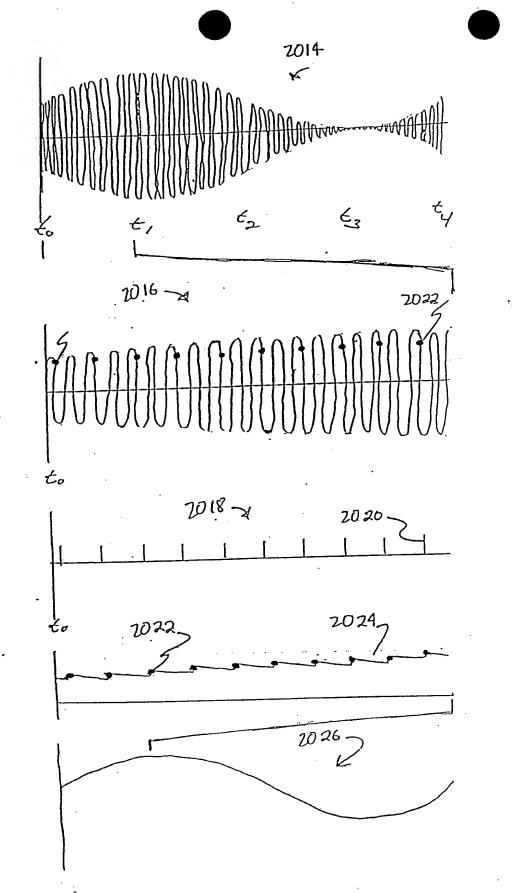


FIG. 20B

FIG. 20C

FIG. 200

FIG. ZOE

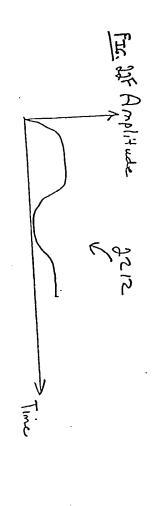
FIG. 20F

huseband signal dloz Transmitter ટ્રાંં transmitted redundant spectrums Communications Medium 3016 spectrums 21106-1 Receiver 77 demodulated basebanů SISNALDIIY

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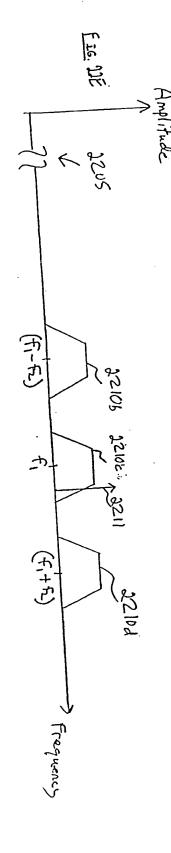
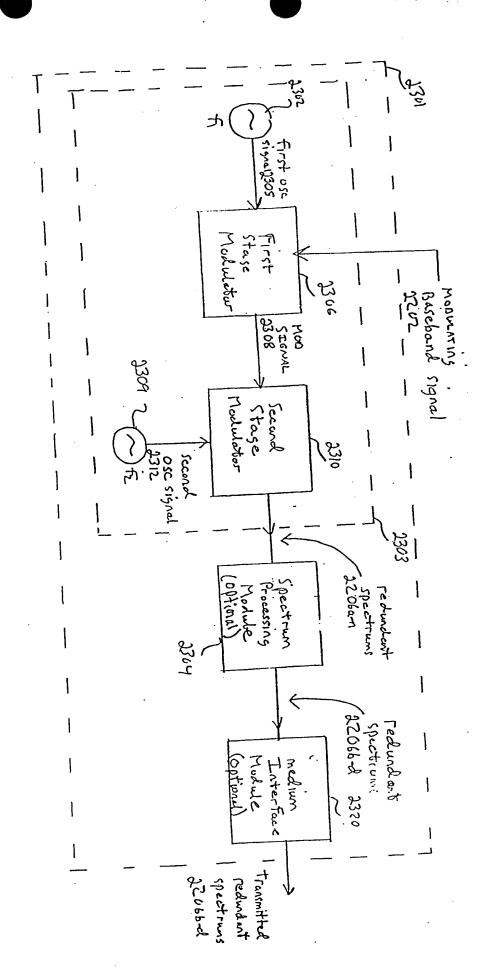
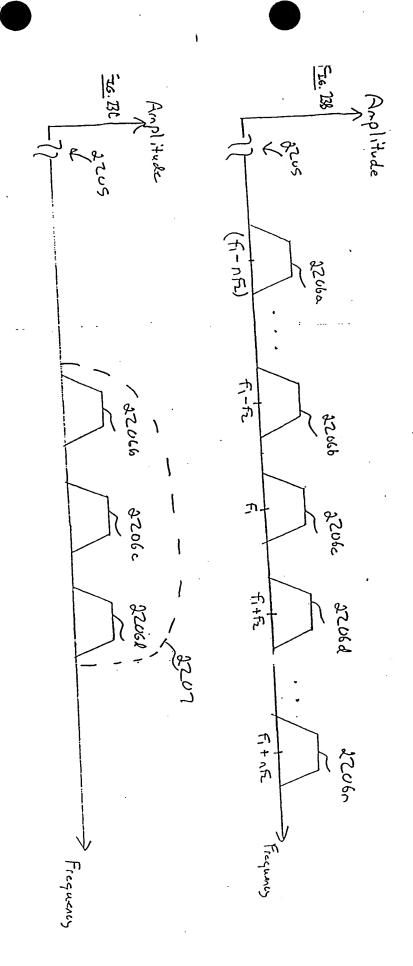


FIG. 23A



. 42,339 2W HEUT Made HUEA

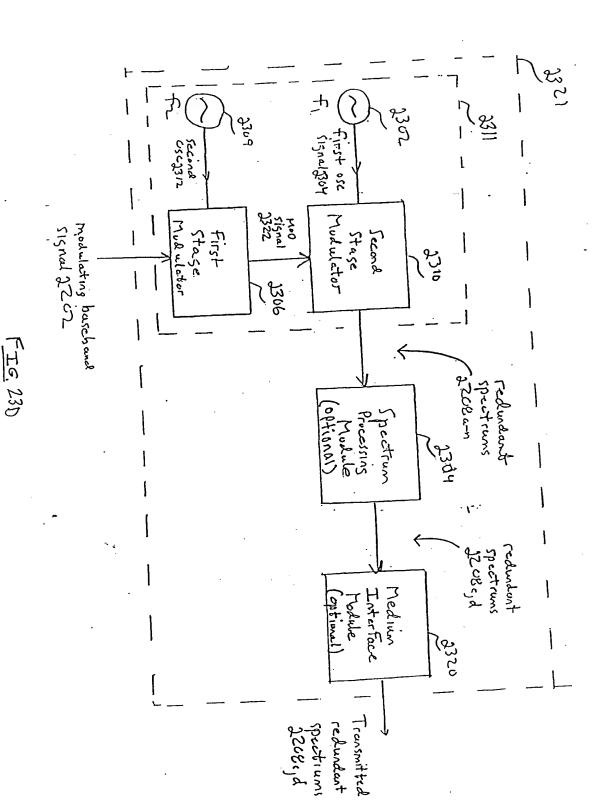


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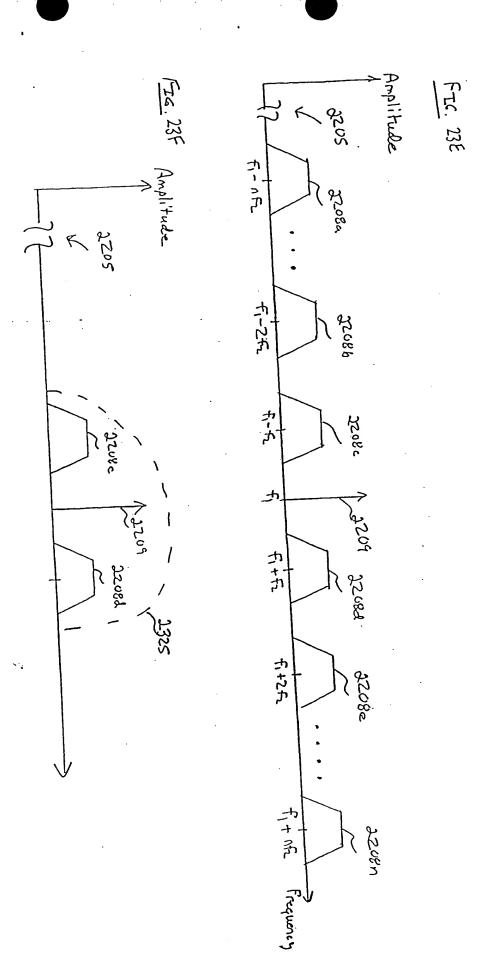
42-31M AMIECIANO

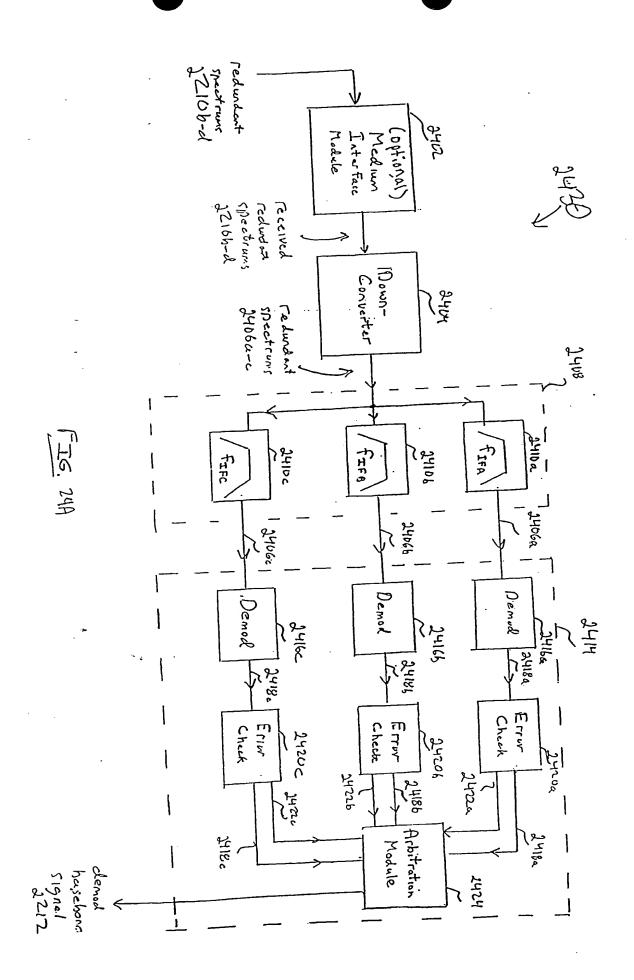
١

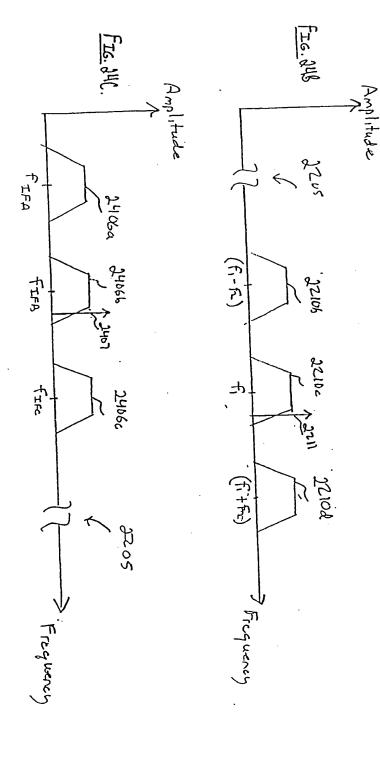
ì



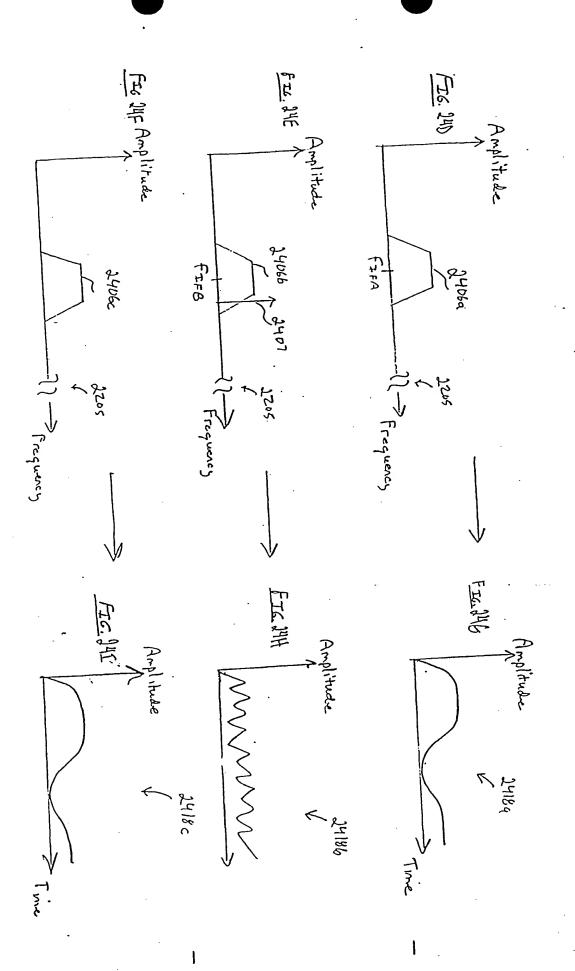
42-599 200 RECYCLED WHILE S SUCH





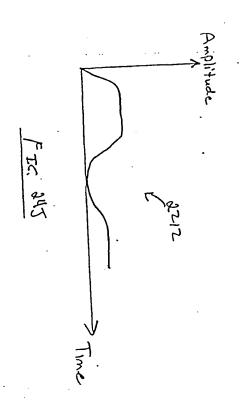


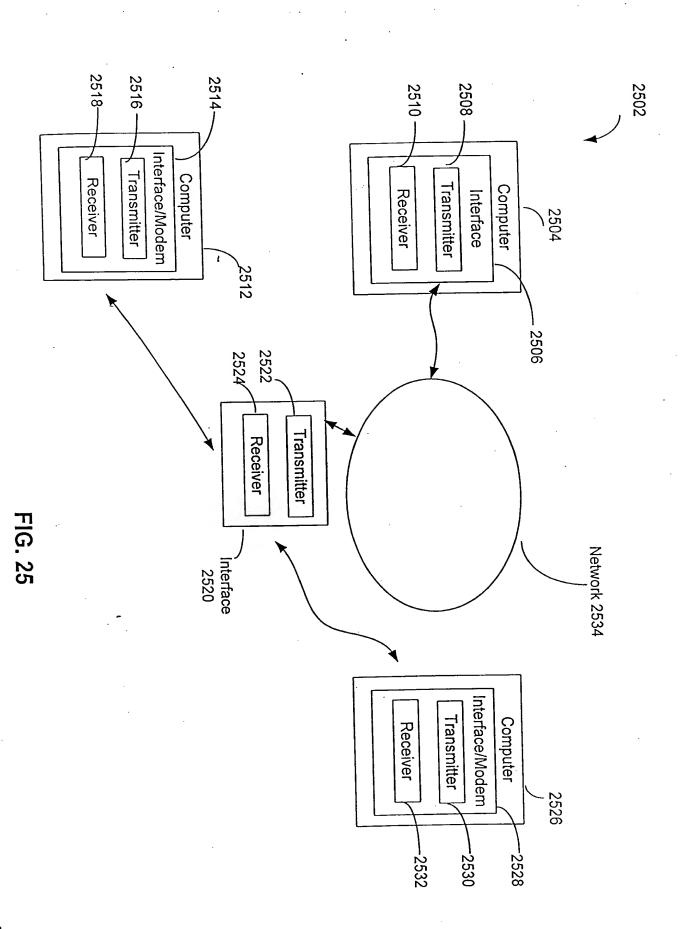
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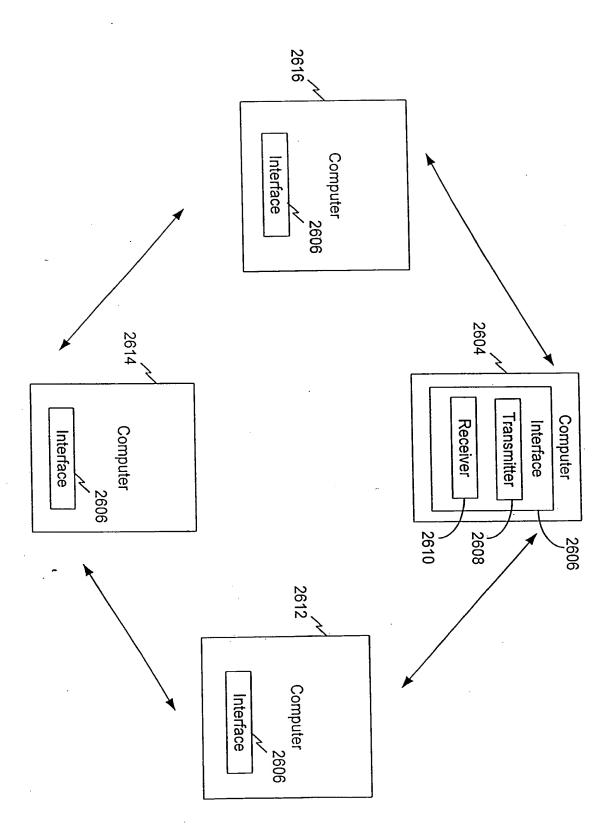


FIG. 26

FIG. 27

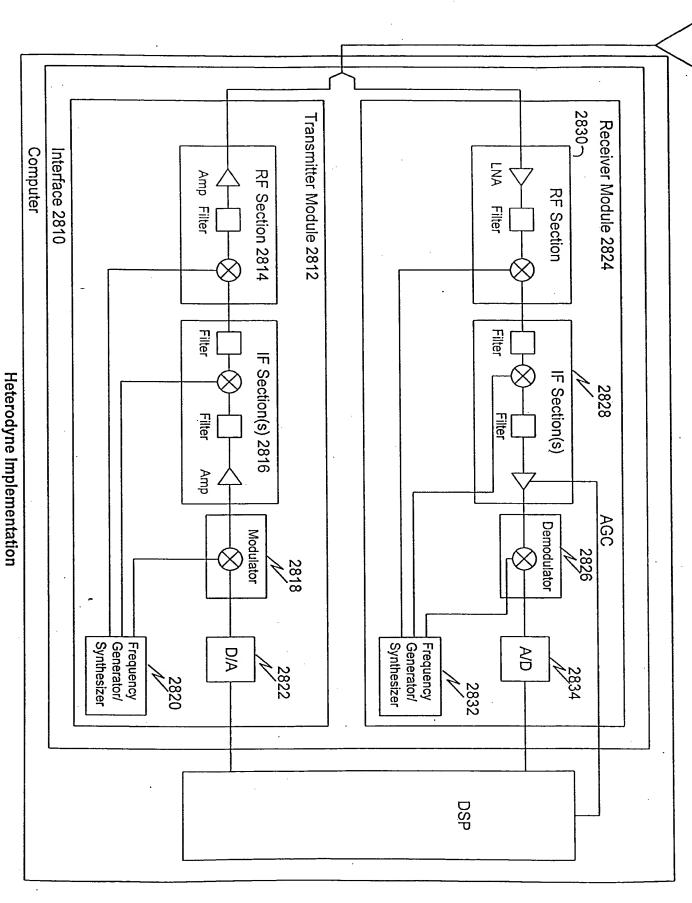
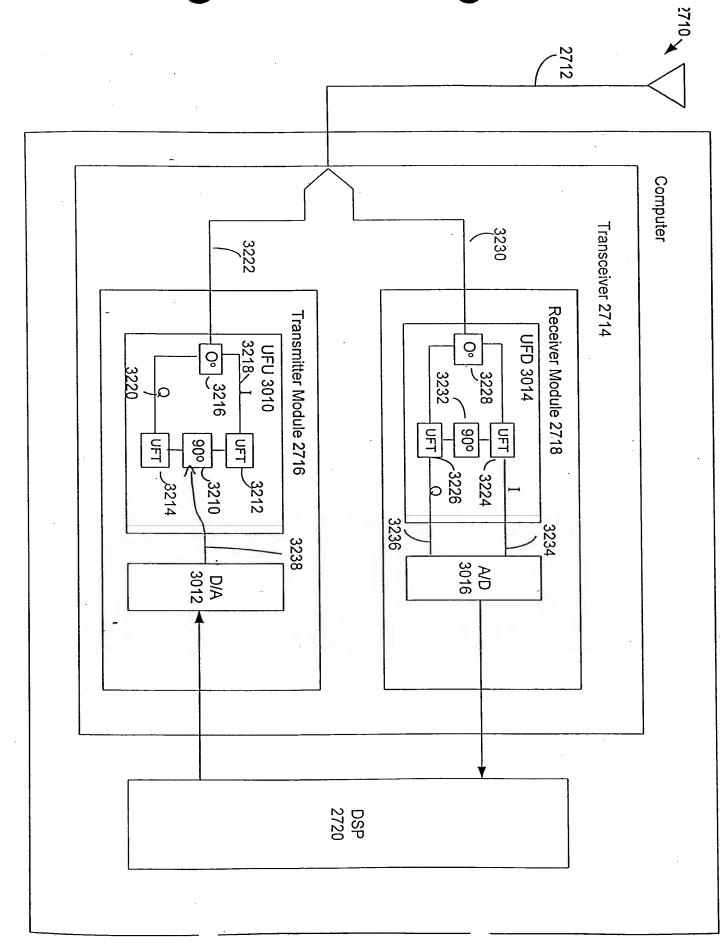
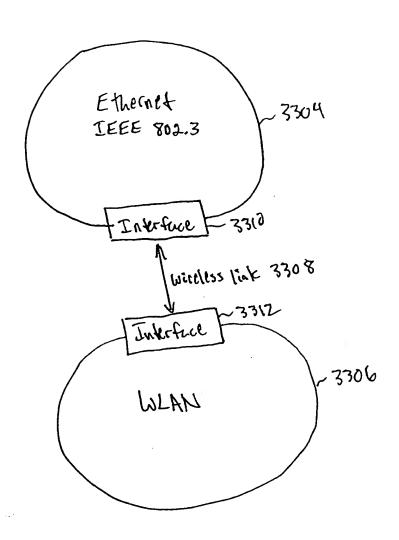


FIG. 28

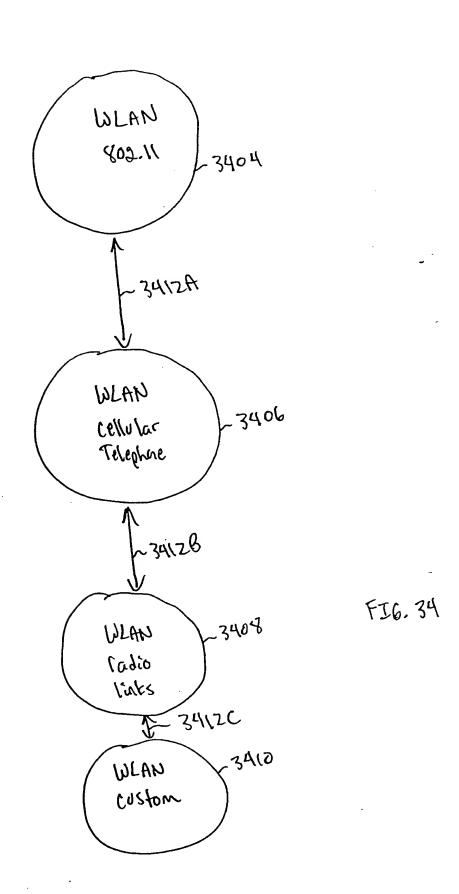
FIG. 29

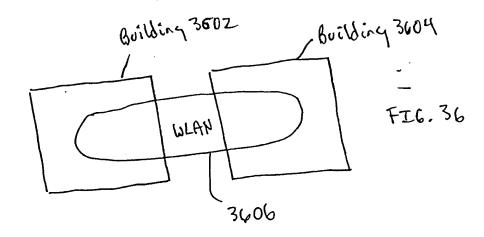
THE EIG. 31



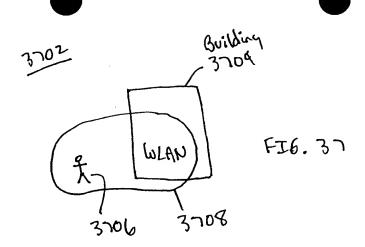


FI6.33



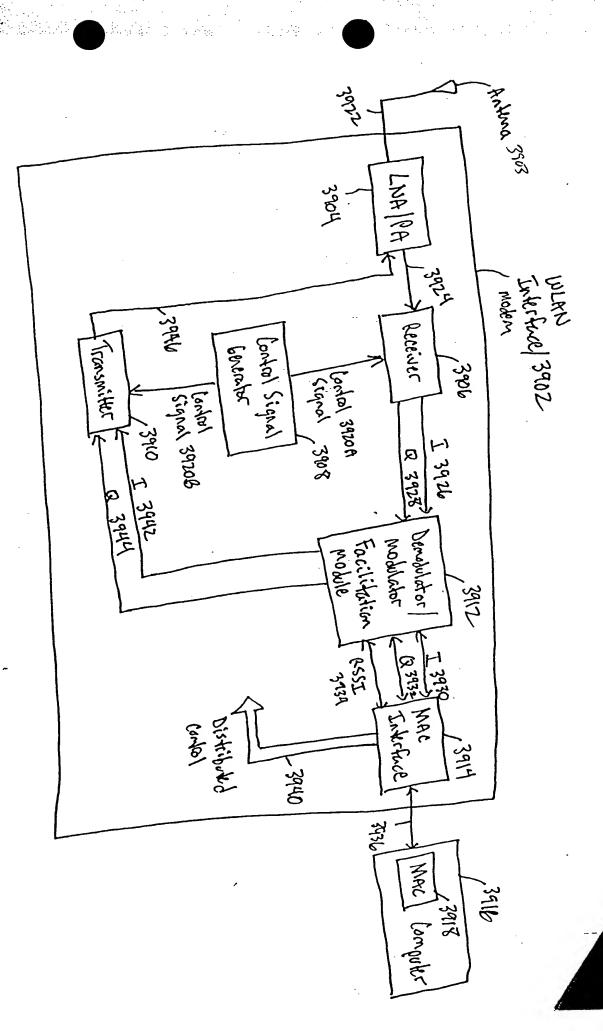


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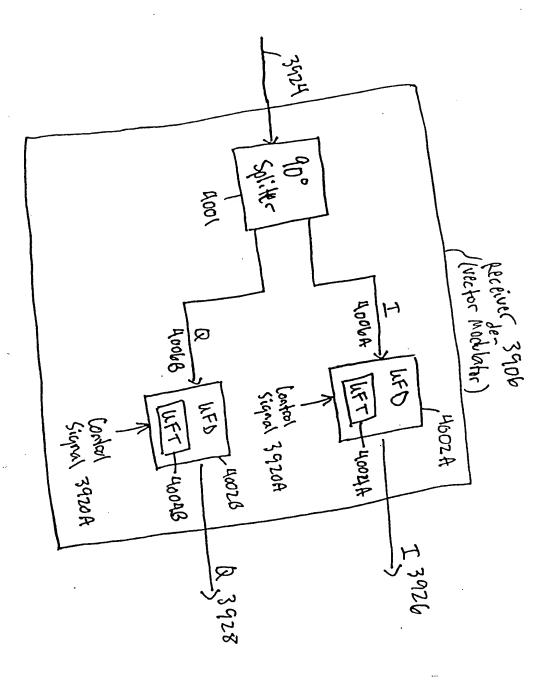


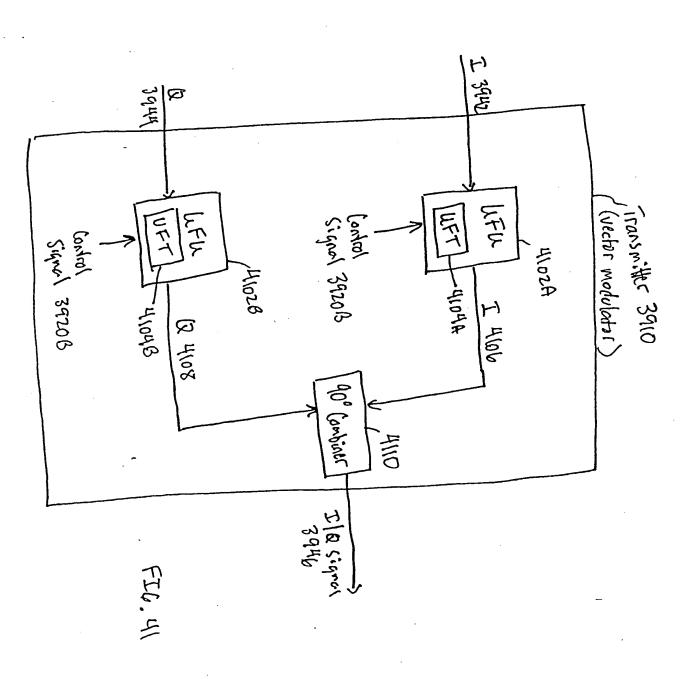


FI6.38



FI 6.39

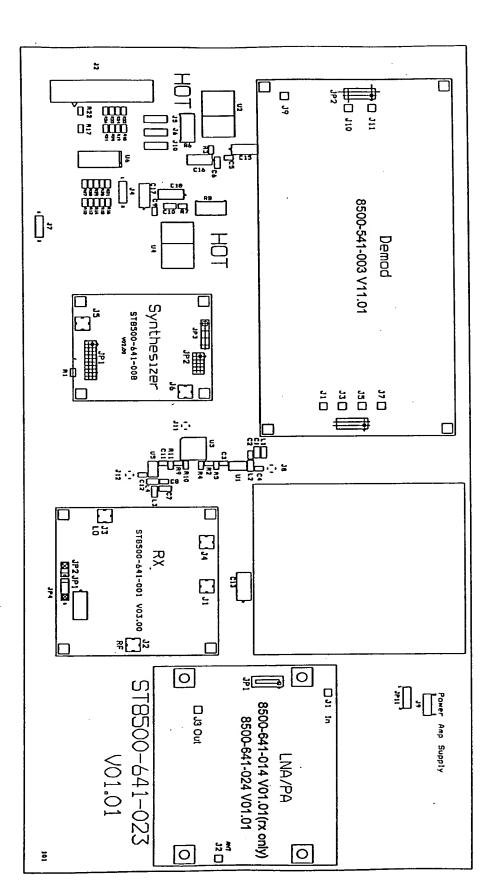




T/R

FIG. 42

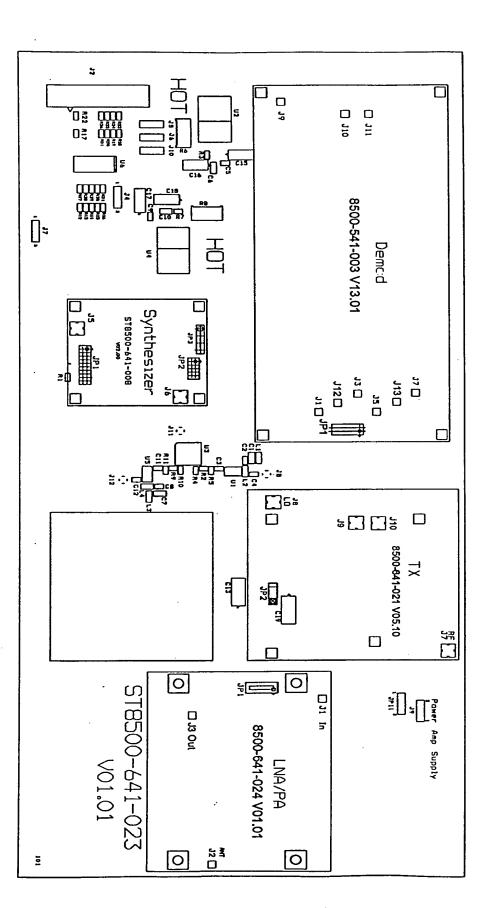
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Receive Only

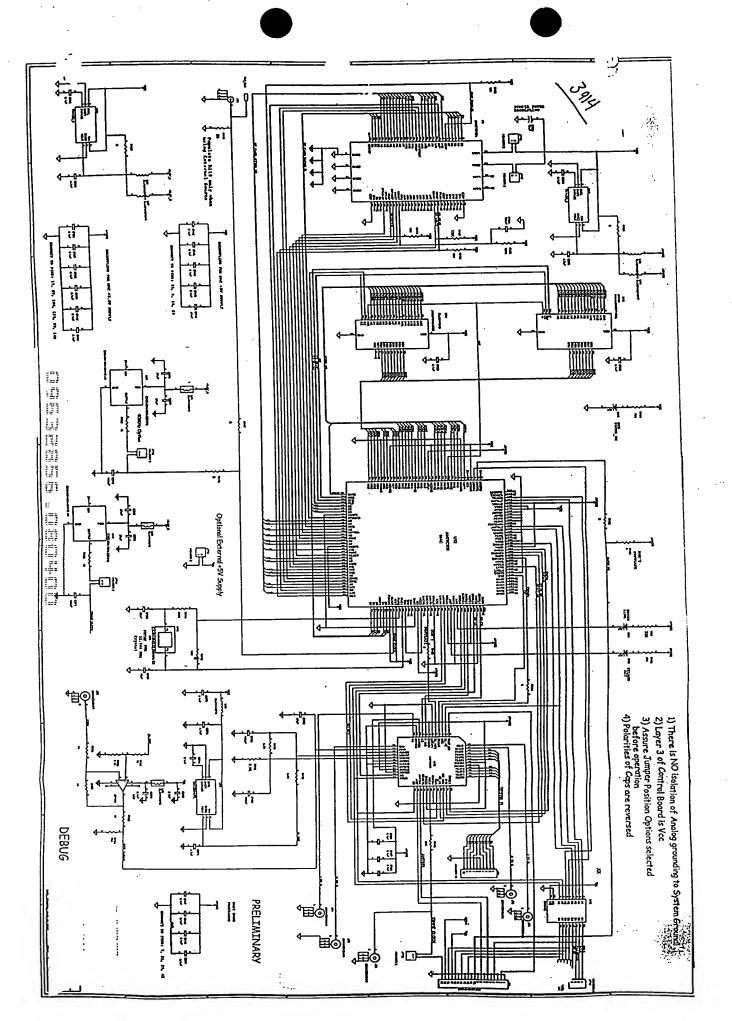
FI 6. 43

The state of the s



Transmit Only

FIG. 灯

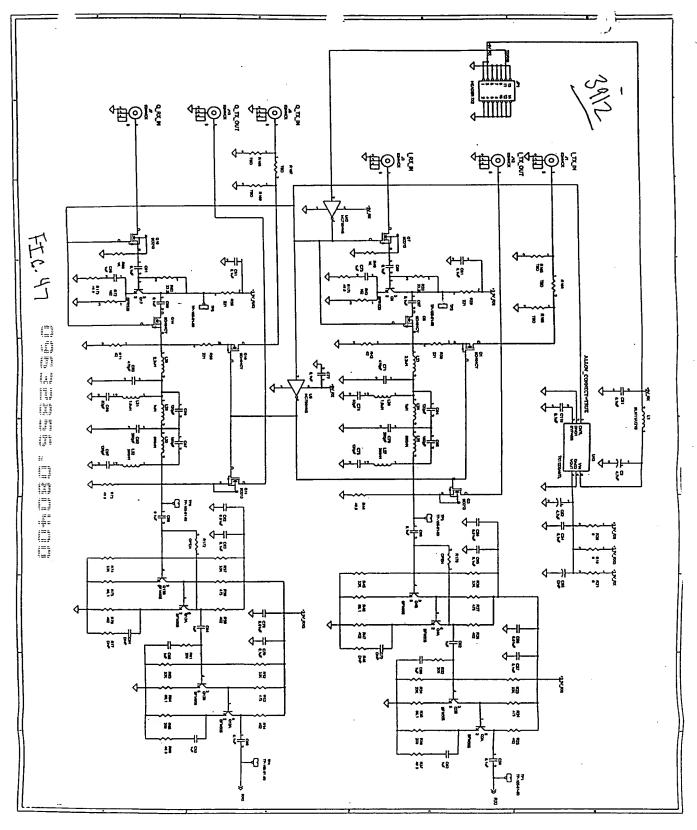


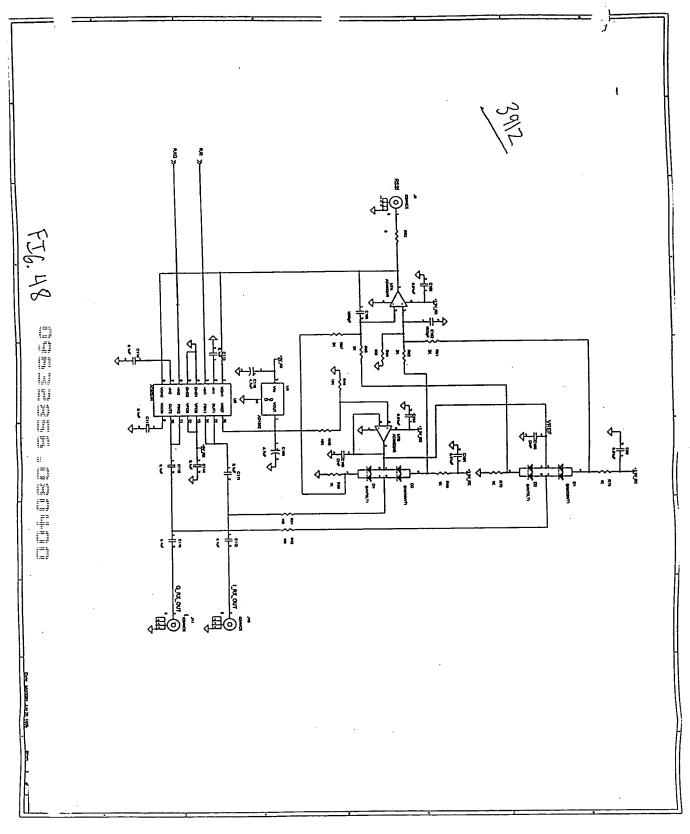
		The second section of the sect	gan sakutan kelalutan salah di berasalah di berasalah di berasalah di berasalah di berasalah di berasalah di b Berasalah di berasalah d	
20 22 22 23 24 25 26 28 29	在 10 10 10 10 10 10 10 10 10 10 10 10 10	13 1 1 1 0 8 7 6 5 13 12 1 1 0 8 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	α ω 4	PARK Item
N	7111 71	0 <u></u>	ω <u>25</u> ω	VISION PO Quantity 1
R112 R114 R105 R106, R107, R108, R111 R116 R113 R110 R110 R99, R100	JP17 JP11 J16, J20, J21, J22, J23, J24, J25 J18 J19 P1 L59, L60, L61, L63, L64, L65,	C124, C132, C133, C271, C278 C129 C270, C277 C130 C131 DS1 DS2 DS3 JP12, JP13, JP14, JP15, JP16,	C263, C273, C275, C282 C120, C125, C126, C127, C128, C136, C137, C138, C139, C141, C142, C143, C144, C145, C147, C148, C149, C264, C272, C274, C279, C280, C281, C283 C146, C269, C276	VISION PCMCIA CONTROLLER BOM Quantity Reference 1 C123
10M, Resistor, 0603, 5% 390K, Resistor, 0603, 5% 100K, Resistor, 0603, 5% 9.1K, Resistor, 0603, 5% 8.2K, Resistor, 0603, 5% 3.9K, Resistor, 0603, 5% 750, Resistor, 0603, 5% 560, Resistor, 0603, 5%	Connector HEADER 4Pin Connector 82MMCX Connector Header10 Connector with Ejector Connector 34X2PCMCIA Ferrite Bead	C132, C133, C271, 100pF CAP 0603,X7R,10% C277 47pF CAP 0603,X7R,10% 27pF CAP 0603,X7R,10% 22pF CAP 0603,X7R,10% 10pF CAP 0603,X7R,10% LED, Green LED Yellow LED Red LED Red JP13, JP14, JP15, JP16, Connector HEADER 2Pin	4.7uF CAP 6032,Tantalum,20% 6.1uF CAP 0603,X7R,10% GRM39X7R 0.1uF CAP 0603,X7R,10% GRM39X7R 01uF CAP 0603,X7R,10% GRM39X7R	Part Description 10uF CAP 6032, Tantalum.20%
ERJ-3GSYJ394V' ERJ-3GSYJ104V ERJ-3GSYJ912V ERJ-3GSYJ912V ERJ-3GSYJ392V ERJ-3GSYJ751V ERJ-3GSYJ751V ERJ-3GSYJ751V	100/VH/TM1SQ/W.100/4 82MMCX-50-0-1 TMS-110-01-G-S EHT-1-10-01-S-D DICMJ-68S-SPC-M08 BLM11A121S	GRM39COG101K050AD GRM39COG470J100AD GRM39COG270K050AD GRM39COG220K050AD GRM39COG100D050AD 597-3311-420 597-3401-420 597-3111-420 2MS-19-33-01	T491A475M006AS GRM39X7R104K050AD GRM39X7R103K050AD	Part Number TAJT106K010R
Panasonic	BLKCON Huber/Shuner samtec samtec ITT Canon Murata	Murata Murata Murata Murata Murata Dialight Dialight Dialight Specialty Electronics	Kemet Murata Murata	Manufacturer Kemet

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R119 R128
R102, R103, R104, R109, R117, R118, R120, R127
R121, R122, R123, R124, R125, R126
U10
U12
U13
U14
U15
U45
U48
U49
U50
U51

FIG.46B

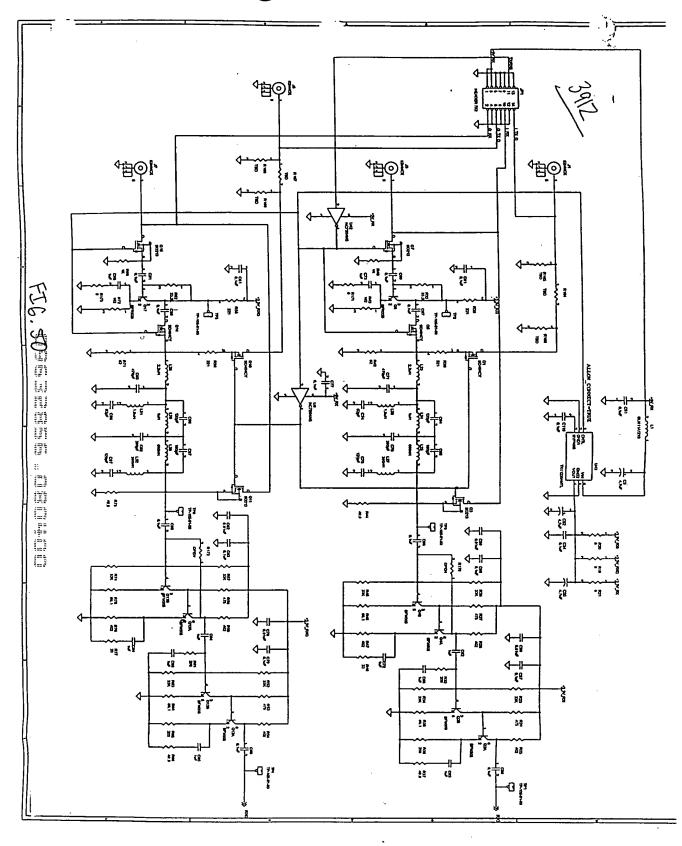


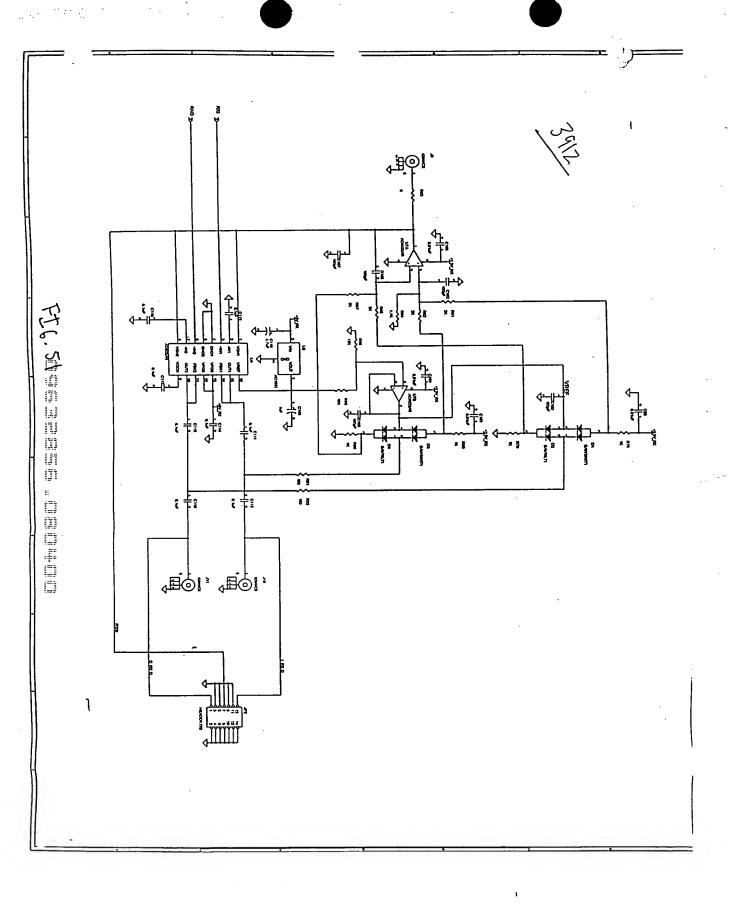


<u>Item</u>	Quantity	Reference	Part	Part Number	Manufact
					Manufacturer
1	4	C3,C52,C108,C110	4.7uF	T491A475K006AS	KEMET
2	26	C51,C54,C57,C58,C60,C61	0.1uF	GRM39Y5V104Z016	
	-	C67,C68,C69,C77,C79,C80		37411031341042010	Murata
		C81,C83,C89,C90,C91,C11	1.		
		C112,C113,C114,C115,C11	6.		
		C117,C118,C119			
3	1	C55	DNP	T4044475K00040	
ţ	8	C56,C59,C78,C82,C99,C101	. 0.01uF	T491A475K006AS	KEMET
		C103,C104	0.0101	GRM39X7R103K050	Murata
<u> </u>	8	C62,C63,C66,C73,C84,C85,	1uF	CDMANAGE	-
		C88,C95	Tut	GRM40Y5V105Z016	Murata
	4	C64,C75,C86,C97	120pF		
121	2	C65,C87	180pF	GRM39COG121J050	Murata
ı[]	2	C70,C92		GRM39COG181J050	Murata
III	2	C71,C93	390pF	GRM39COG391J050	Murata
0 ; ; ;	2	C72,C94	470pF	GRM39COG471J050	Murata
1 171	2	C74,C96	DNP	GRM40Y5V105Z016	Murata
111	2	C100,C106	82pF	GRM39COG820J050	Murata
	2	C105,C102	DNP	DNP	Murata
3 []] 4 []]		D3,D1	1000pF	GRM39COG102K050	Murata
5		D4,D2	BAW56WT1	BAW56WT1	Motorola
		JP1	BAV70LT1	BAV70LT1	Motorola
			HEADER 7X2	FTSH-107-02-L-D	Samtec
		J1,J3,J5,J7,J9,J10,J11,	82MMCX	82MMCX-50-0-1	Suhner
		J12,J13 L1			
			BLM11A121S	BLM11A121S	Murata
		_23,L28	2.2uH	LQG21N2R2K10	Murata
1 12 2		29,L24	1uH	LQG21N1R0K10	Murata
		_30,L25	680nH		Murata
		_26,L31	1.8uH		Murata
		_32,L27	390nH	0.00.000	Murata
		Q1,Q5,Q10,Q14	SD404CY	00 10 10	
		Q2,Q4,Q12,Q13	BFM505	70.000	Calogic
		Q3,Q7,Q11,Q16	SD213		Philips
2		Q17,Q8	BFR520		Calogic
4		R19,R20,R21,R83	0		Philips
	F	R23,R26,R34,R45,R52,R57,	33K	ED 100001000	Panasonic
	F	R63,R74		LIVJ3G31333	Panasonic
	F	24,R27,R53,R58	475	ED INCKE (TEX	
6	R	25,R28,R47,R54,R59,R76			Panasonic
4	R	29,R30,R55,R56			Panasonic
2		32,R61	200	ERJ3EKF2210	Panasonic
2				ERJ3GSYJ201	Panasonic
4		35,R46,R64,R75	33.2K	ERJ3GSYJ333	Panasonic
<u>-</u>	<u></u>	61/1,01/1,01/1,01/10	68.1		Panasonic

FIG. 49A

3 <u>6</u> 7	2	R36,R65	200	ERJ3EKF2000	Panasonic
7	6	R37,R44,R66,R73,R171,	49.9	ERJ3EKF49R9	Panasonic
1		R173			
38	6	R40,R68,R78,R79,R80,R89	1K	ERJ3EKF1001	Panasonic
39	2	R42,R71	62	ERJ3GSYJ620	Panasonic
40	2	R43,R72	162	ERJ3EKF1620	Panasonic
41	2	R77,R48	DNP	ERJ3GSYJ330	Panasonic
42	4	R81,R82,R85,R87	2K	ERJ3EKF2001	Panasonic
43	1	R84	909	ERJ3EKF9090	Panasonic
43 44	1	R88	15K	ERJ3EKF1502	Panasonic
45	1	R90	10K	ERJ3EKF1002	Panasonic
46	2	R91,R92	100	ERJ3EKF1000	Panasonic
47	6	R164,R165,R166,R167,R168,	TBD		Panasonic
		R169			
48	2	R170,R172	OPEN		Panasonic
49	6	TP1,TP2,TP3,TP4,TP5,TP6	TP-105-01-00		
50	2	U42,U6	NC7S04M5	NC7S04M5	National Semiconductor
51	1	U7	AD8052AR	AD8052AR	Analog Devices
52	1	U8	AD1582	AD1582	Analog Devices
53	1	U9	AD605AR	AD605AR	Analog Devices
54	1	U43	TK11235AMTL	TK11235BM	Toko
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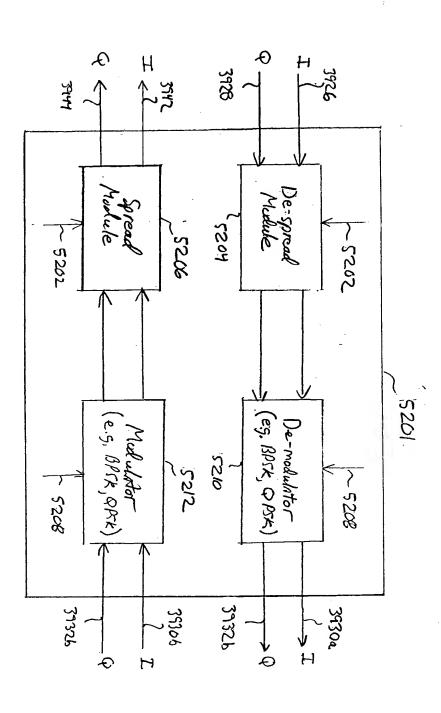
Bill Of Materials

Item	Quantity	Reference	Part	Part Number	Manufacturer
			1		
1	3	C3,C52,C55	4.7uF	T491A475K006AS	KEMET
2	26	C51,C54,C57,C58,C60,C61,	0.1uF	GRM39Y5V104Z016	Murata
		C67,C68,C69,C77,C79,C80,			
		C81,C83,C89,C90,C91,C111,			
	1	C112,C113,C114,C115,C116,			
		C117,C118,C119			
3	8	C56,C59,C78,C82,C99,C101,	0.01uF	GRM39X7R103K050	Murata
		C103,C104			
4	10	C62,C63,C66,C72,C73,C84,	1uF	GRM40Y5V105Z016	Murata
		C85,C88,C94,C95			
5	4	C64,C75,C86,C97	120pF	GRM39COG121J050	Murata
6	2	C87,C65	180pF	GRM39COG181J050	Murata
7 🚅	2	C70,C92	390pF	GRM39COG391J050	Murata
8	2	C71,C93	470pF	GRM39COG471J050	Murata
9	2	C96,C74	82pF		Murata
104	5	C100,C102,C105,C106,C107	100pF	GRM39COG101K050	Murata
4	1	C108	1uF		
	1.	C110	4.7uF		
13Л	2	D3,D1	BAW56WT1	BAW56WT1	Motorola
14	2	D4,D2	BAV70LT1	BAV70LT1	Motorola
15	2	JP2,JP1	HEADER 7X2		
16	6	J1,J3,J5,J7,J10,J11	82MMCX	142-0701-231	Johnson
17	1	J9	82MMCX	82MMCX-50-0-1	Suhner
18=	1	L1	BLM11A121S	BLM11A121S	Murata
19::	2	L28,L23	2.2uH	LQG21N2R2K10	Murata
20=	2	L24,L29	1uH	LQG21N1R0K10	Murata
21=	2	L30,L25	680nH	LQG21NR68K10	Murata
22	2	L26,L31	1.8uH	LQG21N1R8K10	Murata
23	2	L27,L32	390nH	LQG21NR39K10	Murata
24	4	Q1,Q5,Q10,Q14	SD404CY	SD404CY	Calogic -
25	4	Q2,Q4,Q12,Q13	BFM505	BFM505	Philips
26	4	Q3,Q7,Q11,Q16	SD213	SD213	Calogic
27	2	Q17,Q8	BFR520	BFR505	Philips
28	5	R19,R20,R21,R171,R173	0		
29	8	R23,R26,R34,R45,R52,R57,	33K	ERJ3GSYJ333	Panasonic
		R63,R74			
30	4	R24,R27,R53,R58	475	ERJ3EKF4750	Panasonic
31	6	R25,R28,R47,R54,R59,R76	402	ERJ3EKF4020	Panasonic
32	4	R29,R30,R55,R56	221	ERJ3EKF2210	Panasonic
33	2	R32,R61	200	ERJ3GSYJ201	Panasonic
34	2	R33,R62	33.2K	ERJ3GSYJ333	Panasonic
	4	R35,R46,R64,R75	68.1	ERJ3EKF68R1	Panasonic
	2	R36,R65	200	ERJ3EKF2000	Panasonic

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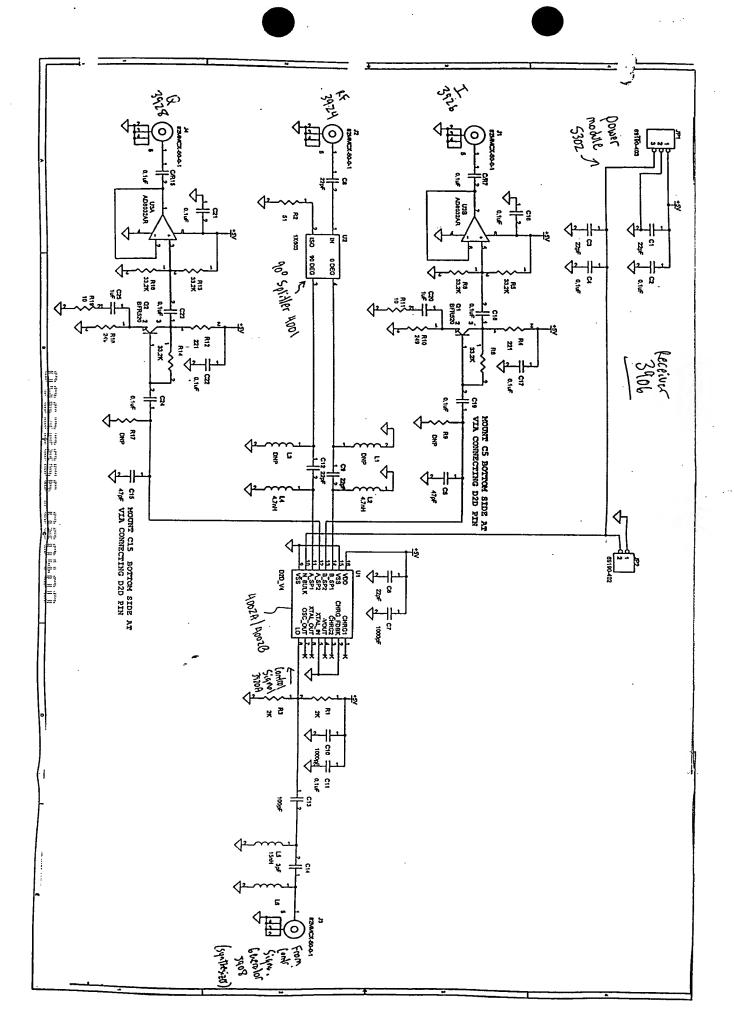
37	2	R66,R37	49.9	ERJ3EKF49R9	Panasonic
8	6	R40,R68,R78,R79,R80,R89	1K	ERJ3EKF1001	Panasonic
39	2	R42,R71	62	ERJ3GSYJ620	Panasonic
40	2	R43,R72	162	ERJ3EKF6810	Panasonic
41	2	R44,R73	49.9	ERJ3EKF1001	Panasonic
42	2	R77,R48	33	ERJ3GSYJ330	Panasonic
43	4	R81,R82,R85,R87	2K	ERJ3EKF2001	Panasonic
44	1	R83	0	ERJGSY0R00	Panasonic
45	1	R84	1.1K	ERJ3EKF2001	Panasonic
46	1	R88	15K	ERJ3EKF1502	Panasonic
47	1	R90	10K	ERJ3EKF1002	Panasonic
48	2	R91,R92	100	ERJ3EKF1000	Panasonic
49	6	R164,R165,R166,R167,R168,	TBD		
		R169			
50	2	R170,R172	OPEN		
51	6	TP1,TP2,TP3,TP4,TP5,TP6	TP-105-01-00		
52	2	U42,U6	NC7S04M5		National Semiconductor
53	1	U7	AD8032AR	AD8032AR	Analog Devices
54	1	U8	AD1582	AD1582	Analog Devices
55	1	U9	AD605AR	AD605AR	Analog Devices
56	1	U43	TK11235AMTL	TK11235AMTL	Toko

FIG. 52B



IG. 52_C

/ 3912



Page1

	C/R7,C/R15,C16,C17,C18, C19,C21,C22,C23,C24 C1,C3,C6,C8,C9,C12 C2,C4,C11 C5,C15 C10,C7 C13 C14 C20,C25 JP1 JP2 J1,J2,J3,J4 L3,L1 L4,L2	22pF 0.1uF 47pF 1000pF 100pF 3pF 1uF 69190-403 69190-402 82MMCX-50-0-1 DNP	L	Murata Murata Murata Murata Murata Murata Murata Murata Murata BERG BERG Suhner TOKO
	C19,C21,C22,C23,C24 C1,C3,C6,C8,C9,C12 C2,C4,C11 C5,C15 C10,C7 C13 C14 C20,C25 JP1 JP2 J1,J2,J3,J4 L3,L1	22pF 0.1uF 47pF 1000pF 100pF 3pF 1uF 69190-403 69190-402 82MMCX-50-0-1 DNP	GRM39COG220J050 GRM39X7R104K016 GRM39COG470J050 GRM39X7R102K050 GRM39X7R101J050 GRM40COG030B50V GRM40Y5V105Z016 69190-403 69190-402 82MMCX-50-0-1 L	Murata Murata Murata Murata Murata Murata Murata Murata BERG BERG Suhner
	C1,C3,C6,C8,C9,C12 C2,C4,C11 C5,C15 C10,C7 C13 C14 C20,C25 JP1 JP2 J1,J2,J3,J4 L3,L1	0.1uF 47pF 1000pF 100pF 3pF 1uF 69190-403 69190-402 82MMCX-50-0-1 DNP	GRM39X7R104K016 GRM39COG470J050 GRM39X7R102K050 GRM39X7R101J050 GRM40COG030B50V GRM40Y5V105Z016 69190-403 69190-402 82MMCX-50-0-1 L	Murata Murata Murata Murata Murata Murata Murata BERG BERG Suhner TOKO
	C2,C4,C11 C5,C15 C10,C7 C13 C14 C20,C25 JP1 JP2 J1,J2,J3,J4 L3,L1	0.1uF 47pF 1000pF 100pF 3pF 1uF 69190-403 69190-402 82MMCX-50-0-1 DNP	GRM39X7R104K016 GRM39COG470J050 GRM39X7R102K050 GRM39X7R101J050 GRM40COG030B50V GRM40Y5V105Z016 69190-403 69190-402 82MMCX-50-0-1 L	Murata Murata Murata Murata Murata Murata Murata BERG BERG Suhner TOKO
	C5,C15 C10,C7 C13 C14 C20,C25 JP1 JP2 J1,J2,J3,J4 L3,L1	47pF 1000pF 100pF 3pF 1uF 69190-403 69190-402 82MMCX-50-0-1 DNP	GRM39COG470J050 GRM39X7R102K050 GRM39X7R101J050 GRM40COG030B50V GRM40Y5V105Z016 69190-403 69190-402 82MMCX-50-0-1 L	Murata Murata Murata Murata Murata BERG BERG Suhner TOKO
	C10,C7 C13 C14 C20,C25 JP1 JP2 J1,J2,J3,J4 L3,L1	1000pF 100pF 3pF 1uF 69190-403 69190-402 82MMCX-50-0-1 DNP	GRM39X7R102K050 GRM39X7R101J050 GRM40COG030B50V GRM40Y5V105Z016 69190-403 69190-402 82MMCX-50-0-1 L	Murata Murata Murata Murata BERG BERG Suhner
	C13 C14 C20,C25 JP1 JP2 J1,J2,J3,J4 L3,L1	100pF 3pF 1uF 69190-403 69190-402 82MMCX-50-0-1 DNP	GRM39X7R101J050 GRM40COG030B50V GRM40Y5V105Z016 69190-403 69190-402 82MMCX-50-0-1 L	Murata Murata Murata BERG BERG Suhner TOKO
	C14 C20,C25 JP1 JP2 J1,J2,J3,J4 L3,L1	3pF 1uF 69190-403 69190-402 82MMCX-50-0-1 DNP	GRM40COG030B50V GRM40Y5V105Z016 69190-403 69190-402 82MMCX-50-0-1 L	Murata Murata BERG BERG Suhner TOKO
	C20,C25 JP1 JP2 J1,J2,J3,J4 L3,L1	1uF 69190-403 69190-402 82MMCX-50-0-1 DNP	GRM40Y5V105Z016 69190-403 69190-402 82MMCX-50-0-1 L	Murata BERG BERG Suhner TOKO
	JP1 JP2 J1,J2,J3,J4 L3,L1	69190-403 69190-402 82MMCX-50-0-1 DNP	69190-403 69190-402 82MMCX-50-0-1 L	BERG BERG Suhner TOKO
, , ,	JP2 J1,J2,J3,J4 L3,L1	69190-402 82MMCX-50-0-1 DNP	69190-402 82MMCX-50-0-1 L	BERG Suhner TOKO
	J1,J2,J3,J4 L3,L1	82MMCX-50-0-1 DNP	82MMCX-50-0-1 L	Suhner TOKO
	L3,L1	DNP	L	ТОКО
			L	ТОКО
	L4,L2	4 7 . 1 1		
		4.7nH	LL1608-F4N7K	ТОКО
	_5	15nH	LL2012FH15NJ	ТОКО
	_6	DNP	DNP	ТОКО
	Q1,Q2	BFR520	BFR520	Philips
F	R1,R3	2K		Panasonic
F	₹2	51		Panasonic
Ţ.	R4,R12			Panasonic
F	R5,R6,R8,R13,R14,R16			Panasonic
	R9,R17			Panasonic
F	R10,R18			Panasonic
		· · ·		Panasonic
				Parker Vision
				Anaren Analog Devices
	F F U	R10,R18 R11,R19 U1 U2	R10,R18 249 R11,R19 10 U1 D2D_V4 U2 1X603	R9,R17 DNP ERJ3EKF1001 R10,R18 249 ERJ3EKF2490 R11,R19 10 ERJ3GSYJ100 U1 D2D_V4 D2D_V4 U2 1X603 1X603

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Illam QV Reference	-	r allasol	11,0000					
		Deposio	ER ISCSV II SO	1 SK 5%	1.5K	R13	_	낔
		Panasonic	ERJ3GSYJ133	13K, 5%	13K	R12	_	30
Reference		Panasonic	ERJ3GSYJ332	3.3K, 5%, 06	3300	R10	_	29
Reference	_i	Panasonic	ERJ3GSYJ750	75 ohm, 5%,	75	R9, R17	7	28
Description Part Diode, Variation Part Diode, Variation Part Diode, Variation Part Diode, Variation Part Number Manufacturer Diode, Variation Di		Panasonic	ERJ3GSYJ202		28	R8		27
		Panasonic	ERJ3GSYJ1R0	Resistor, 10 ohm, 5%, 0603	10	R4		26
		Panasonic	ERJ3GSYJ102	Resistor, 1K, 5%, 0603	\$	R1,R2,R3,R11,R30		25
		Philips	BFR520	Transistor, NPN	BFR520	Ω1		24
March Part Description Part Description Part Number Part N		Toko	LL2012-F82NK	10%.	82nH	L14	_	23
Description	_1	Murata	BLM11A121S	Ferrite Bead, 0603	BLM11A121S	6	6	22
Micrata Part Description Part Number	_!	KOA	RM73ZIJT	Zero Ohm Jumper	0 Ohm		-	22
Part	!	Coilcraft	0805CS-180XJBC	8	18nH			20
Miles		Suhner	82MMCX-50-0-1	RF Connector	82MMCX	J5,J6		19
Part Description	!	Berg	TSW-104-08-T-S	Header, single row 4 pin, .100"	TSW-104-08-T-S	JP3		18
		Samtec	FTSH-105-02-F-D	Header, dual row 5x2, .050x.050	FTSH-105-02-F-D	JP2		17
		Samtec	FTSH-110-02-F-D	Header, dual row 10x2, .050x.050	FTSH-110-02-F-D	JP1		16
C1,C3,C5,C7,C9,C10 Description Part Number Manufacturer		Panasonic	ERJ3GSY0R00	0603	0 ohm	R16,C31, R17	,	15
CR1 BBY51-E6327 Diode, Varactor Part Number Manufacturer CP3,C2,C2,C3,C3,C3,C3,C3,C3,C3,C3,C3,C3,C3,C3,C3,	1.	Kemet	T491A475K006AS	4.7uF, 10%,	4.7uF		ယ	14
I		Murata		, 0603	DNP	C33	4	13
mm Clty Reference Part Description Part Number Manufacturer		Murata	GRM36COG220K050	22pF, 10%,	22pF	C20,C18	2	12
Manufacturer Part Description Part Part Diode, Varactor Part Part Diode, Varactor Part Part Part Part Diode, Varactor Part P		1	GRM39X7R472K016	4700pF, 10%, 06	4700pF	C16	1	11
Reference			GRM39COG150J050	ceramic, 12pF, 5%, COG, 06	12pF	C15	1	10
em Qty Reference Part Description Part Number BBY51-E6327 Diode, Varactor BBY51-E6327 Diode, Varactor BBY51-E6327 Diode, Varactor BBY51-E6327 Capacitor, ceramic, .01uF, 10%, X7R, 0603 GRM39X7R104K016AD Capacitor, ceramic, .01uF, 10%, X7R, 0603 GRM39X7R103K050 Capacitor, ceramic, .220pF, 5%, COG, 0603 GRM39X7R103K050 GRM39X7R103K050 GAPAGE CAPACITOR, CERAMIC, .230pF, 5%, COG, 0603 GRM39COG221J025 GAPAGE CAPACITOR, CERAMIC, .33pF, .4-25pF, COG, 0603 GRM39COG3R3B100V GAPAGE CAPACITOR, CERAMIC, .53pF, 1-25pF, COG, 0603 GRM39COG6R8C100V GAPAGE CAPACITOR, CERAMIC, .000pF, 10%, X7R, 0603 GRM39COG6R8C100V GAPAGE CAPACITOR, CAPACITOR, CAPACITOR, CAPACITOR, CAPACITOR, CAPACITOR, CAPACITOR, CAPACITOR, CAPACI		Murata	GRM39X7R152K016	ceramic, 1500pF, 10%, X7R, 060	1500pF	C14	_	ဖ
em Qty Reference Part Description Part Number CR1 BBY51-E6327 Diode, Varactor BBY51-E6327 Diode, Varactor BBY51-E6327 Diode, Varactor Capacitor, ceramic, 10%, X7R, 0603 GRM39X7R104K016AD C29,C2 0.1uF Capacitor, ceramic, .01uF, 10%, X7R, 0603 GRM39X7R103K050 GRM39X7R103K050 C4,C8,C17 .01uF Capacitor, ceramic, .01uF, 10%, X7R, 0603 GRM39X7R103K050 GRM		Murata	GRM39X7R102K016	1000pF, 10%, X7R, 060	1000pF	35,C36,C	4	8
em Qty Reference Part Description Part Number BBY51-E6327 Diode, Varactor BBY51-E6327 Diode, Varactor BBY51-E6327 Capacitor, ceramic, 100pF, 10%, COG, 0603 GRM39COG101K050 C29,C2 0.1uF Capacitor, ceramic, .1uF, 10%, X7R, 0603 GRM39X7R104K016AD C30pF Capacitor, ceramic, .01uF, 10%, X7R, 0603 GRM39X7R103K050 GRM39X7R103K050 GRM39COG221J025 Capacitor, ceramic, 220pF, 5%, COG, 0603 GRM39COG3R3B100V	L	Murata	GRM39COG6R8C100V	6.8pF, +/25pF, COG, C	6.8pF	C12	1	7
em Qty Reference Part Description Part Number 1		Murata	GRM39COG3R3B100V	Capacitor, ceramic, 3.3pF, 5%, COG, 0603	3.3pF	C11		0
CR1 BBY51-E6327 Diode, Varactor BBY51-E6327 Diode, Varactor BBY51-E6327 Diode, Varactor BBY51-E6327 Capacitor, ceramic, 100pF, 10%, COG, 0603 GRM39COG101K050 GRM39COG101K		Murata	GRM39COG221J025	Capacitor, ceramic, 220pF, 5%, COG, 0603	220pF	C6	1	5
		Murata	GRM39X7R103K050	.01uF, 10%,	.01uF	C4,C8,C17	3	4
		Murata	GRM39X7R104K016AD	.1uF, 10%, X7R, 06	0.1uF	C29,C2	2	ယ
		Murata	GRM39COG101K050	tor, ceramic, 100pF, 10%, COG,	100pF	C7	6	2
City Reference Part Description Part Number		Siemens	BBY51-E6327		BBY51-E6327	CR1	=	_
		Manufacturer	Part Number	Description	Part	Reference	Q _V	llem
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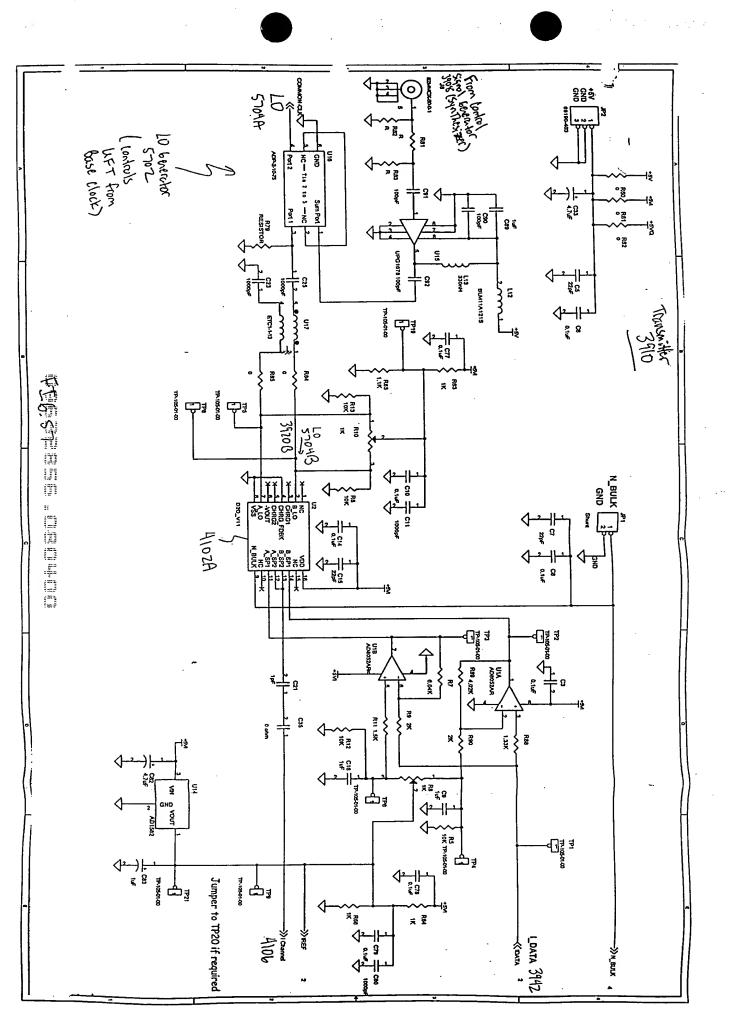
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	00	i is	U5	U4		3	<u>C</u>		TP1	797	D27	R36	20,219	048 040	מוא	מאה	R14
ST8500, 641.00B	OF CIO/OGV	I IDC1879CV	74125	IK11233AMIL	CAC-SIN-TOIN-HOMINZ AMI OSC, 40MINZ	CAU-311-1011 1011-1-	PE3282A	1 69t LOUIT	Tact Doint	כאל		TBD	CNT	25	CNT	2	220
おのなん)	ic, an Amplifier			Voltage Regulator, 3.5V	ALEI OSC, 4UMINZ	V151 O5 (011)	IC, Synthesizer			Resistor, , 0603	הייסוסיסו, דסוס סווווו, סטטט	Resistor zero ohm 0803	Resistor, 91 ohm, 5%, 0603		Resistor, zero ohm. 0603		Resistor 220 ohm sw nena
	UPC1678GV	MC/4LCX125DT	100000000000000000000000000000000000000	TK11235BM	CXO-3M-10N-40MHZ A/I Statek	- Lorday	PE3282A				IT スプスGの Y U X OO		ERJ3GSYJ910	בואספטוסוסט	ED INCOVADA	EDJ3G0TJ221	ED ISOSVISSA
	NEC	Motoroia	1020	7,00	Statek	Leichille	Dococio		rallasonic	Danasania	Panasonic	- dilacollo	Panasonic	Fanasonic	7	ranasonic	

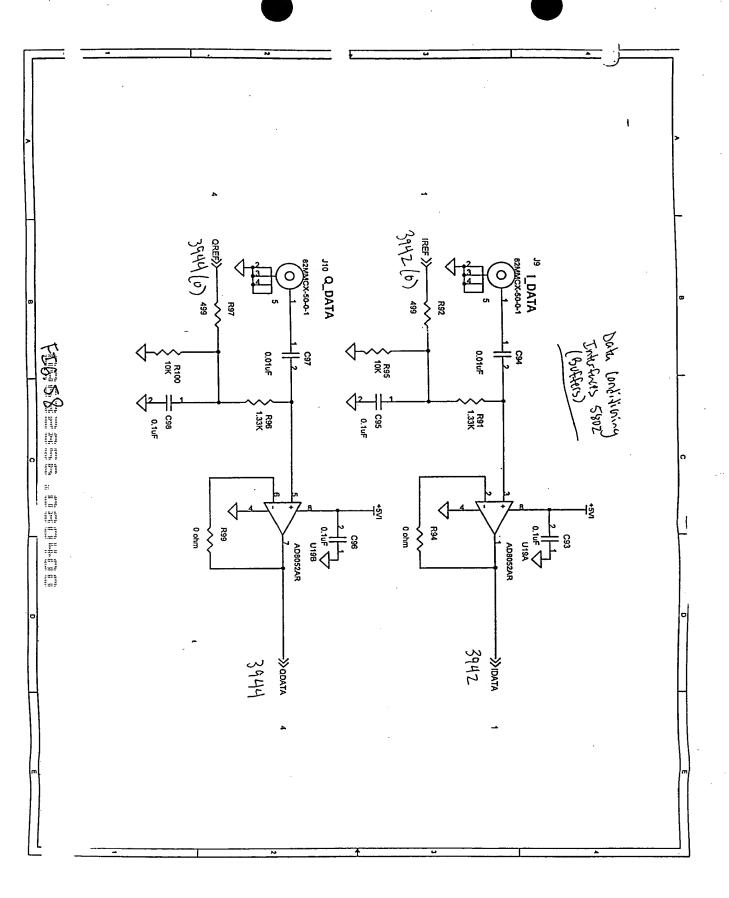
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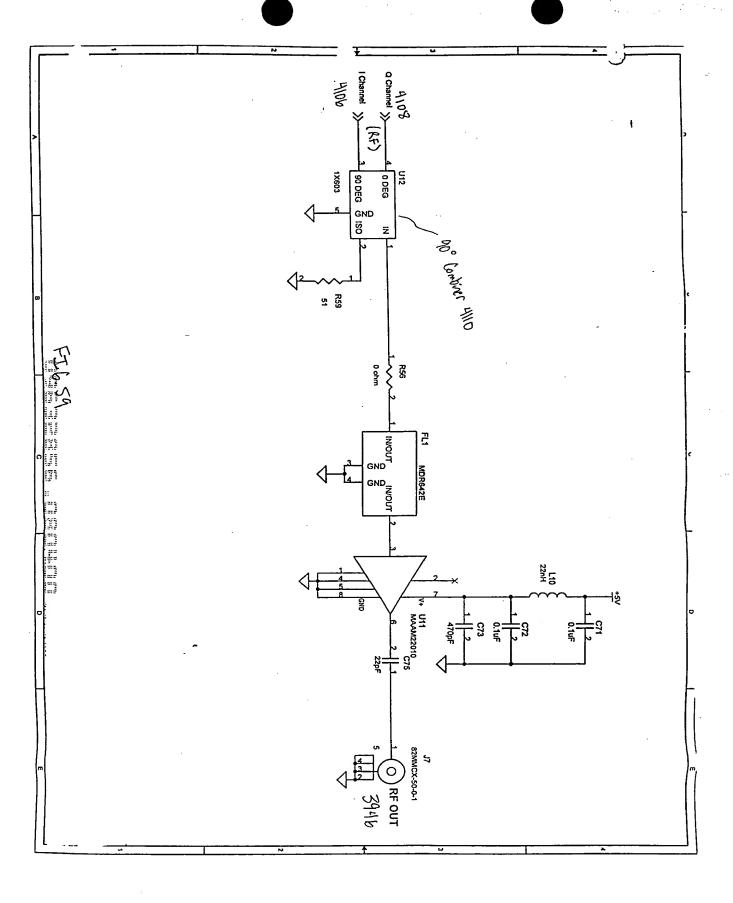
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2 OF 2

FIG. SbB







Page1

Bill Of Materials

ttem	Quantity	Reference	Part	Part Number	Manufacturer
*9					
	21	C3,C6,C8,C10,C14,C38,C44,	0.1uF	GRM39X7R104K016	Murata
		C46,C51,C71,C72,C77,C78,			
		C79,C84,C85,C86,C93,C95,			
1:		C96,C98			
2	6	C5,C7,C15,C43,C52,C75	22pF	GRM39COG220J050	Murata
3	5	C9,C16,C45,C53,C89	1uF	GRM40Y5V105Z016	Murata
4	8	C11,C23,C25,C47,C61,C63,	1000pF	GRM39X7R102K050	Murata
		C80,C87			
5	2	C58,C21	1pF	GRM39COG010B50V	Muçata
6	2	C82,C33	4.7uF	T491A475K006AS	KEMET
7	2	C59,C35	0 ohm	GRM39COGxxx50V	Murata
8	1	C73	470pF	GRM39COG471J050	Murata
9	1	C83	1uF	T491A105M016AS	Kemet
10	3	C90,C91,C92	100pF	ECU-V1H101JCV	
11	2	C94,C97	0.01uF	GRM39X7R103K016	Murata
12	1	FL1	MDR642E	MDR642E	Soshin
13	1	JP1	Shunt	69190-402	BERG
14	1	JP2	69190-403	69190-403	BERG
15	4	J7,J8,J9,J10	82MMCX-50-0-1	82MMCX-50-0-1	Suhner
16	1	L10	22nH	LL1608-F22NK	Coilcraft
17	1	L12	BLM11A121S	BLM11A121S	Murata
18	1	L13	330nH	LL2012-FR33K	-
19	10	R5,R6,R12,R13,R32,R33,	10K	ERJ3EKF1002	Panasonic
		R39,R40,R95,R100			
20	2	R34,R7	6.04K	ERJ3EKF6041	Panasonic
21	4	R8,R10,R35,R37	1K	3224W-1-102	Bourns
22	4	R9,R36,R90,R103	2K	ERJ3EKF2001	Panasonic
23	2	R38,R11	1.5K	ERJ3EKF1501	Panasonic
24	3	R56,R94,R99	0 ohm	ERJ3GSY0R00	Panasonic
25	1	R59	51	ERJ3GSYJ510	Panasonic
26	7	R60,R61,R62,R84,R85,R86,	0	ERJ3GSY0R00	Panasonic
		R87			
27	6	R63,R64,R66,R69,R70,R72	1K	ERJ3EKF1001	Panasonic
28	2	R71,R65	1.1K	ERJ3EKF1101	Panasonic
29	2	R80,R79	RESISTOR		
30	3	R81,R82,R83	R		
31	4	R88,R91,R96,R101	1.33K	ERJ3EKF1331	Panasonic
32	2	R102,R89	4.02K	ERJ3EKF4021	Panasonic
33	2	R92,R97	499	ERJ3EKF4990	Panasonic
34	19	TP1,TP2,TP3,TP4,TP5,TP6,	TP-105-01-00		· ariasonio

FIG. blA

		TP8,TP9,TP11,TP12,TP13,			
		TP14,TP15,TP16,TP18,TP19,			
		TP20,TP21,TP22			
35	3	U1,U6,U19	AD8052AR	AD8052AR	Analog Devices
36	2	U7,U2	D2D_V11	D2D_V11	Parker Vision
37	1	U11	MAAM22010	MAAM22010	MACOM
38	1	U12	1X603	1X603	Anaren
39	1	U14	AD1582	AD1582	Analog Devices
40	1	U15	UPG1678	UPG1678GV	NEC
41	1	U16	ADP-2-10-75	ADP-2-10-75	Mini-Circuits

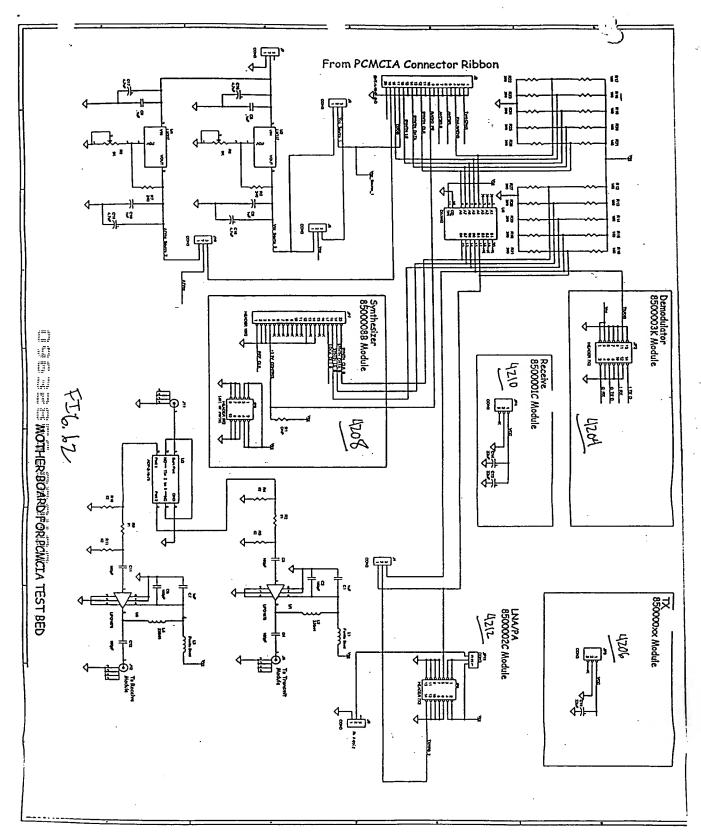
BOARD

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V05 10

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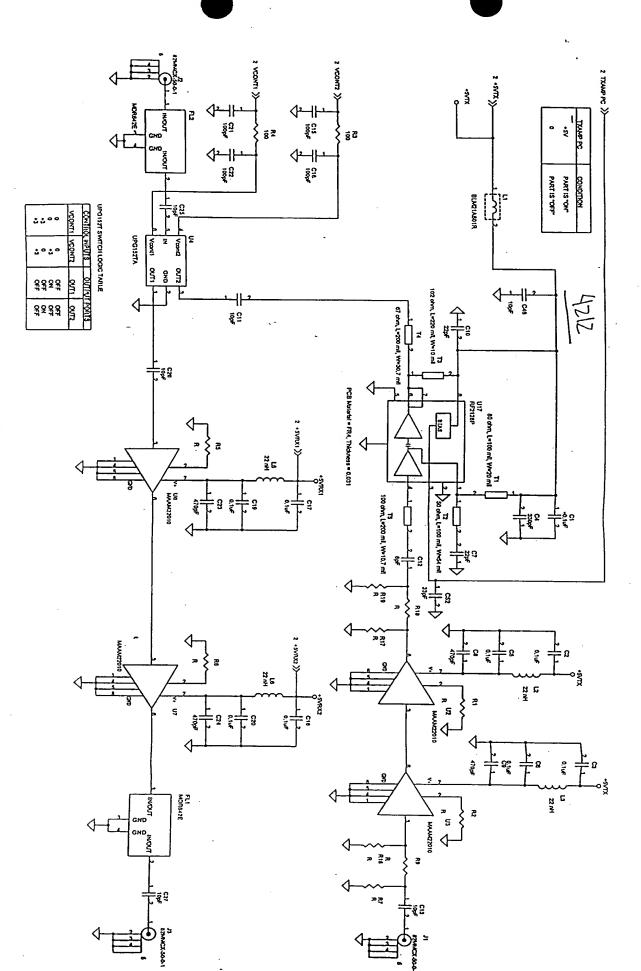
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_	-	-		2	10	2	5	4 (2	2	-	2	2	ω	-	-	F	ď	7	4	ယ	2	6	4	S S	Ma Ma	_	
	Co	U3	U\$,UZ	U5,U1	R22, R23, R24, R25, R26, R27, R28, R29, R30, R31	R17, R18, R19, R20, R21	R8,R8	R4,R5,R10,R11	R7,R3	R9,R2	R1	L4,L2	L3,L1	J8,J11,J12	J2	JP8	JP7	J10, JP11	JP2,JP6	C15,C16,C17,C18	C13,C14,C19	C5,C9	C2,C3,C4,C8,C11,C12	C1,C6,C7,C10	Reference	Bill Of Materials		
	DS3862	ADP-2-10-75	LM317	UPG1678	390		5K	82	240	91	DNP	330nH	Ferrite Bead	82MMCX-50-0-1	EHT-1-10-01-S-D	HEADER 5X2	HEADER 10X2	CON3	HEADER 7X2	4.7uF	22uF	.1uF	100pF	1uF	Part			
Bosed	IC, Buffer	RF Splitter	IC, Voltage Regulator	IC, RF Buffer	Res, 390 Ohm, 5%, 0603	Res, 180 Chm, 5%, 0603	Var Res, 5K, 10%	물	Res, 240 Ohm, 5%, 0603	Res, 91 Ohm, 5%, 0603		Ind, 330nH, 10%, 0805	Ferrite Bead, 0805	Connector, RF	Header, ribbon, 10x2pin, 2mm	Receptacle, 5x2pin, .050	Receptacle, 10x2pin, .050	Header, 3pin, .100"	Receptacle, 7x2pin, .050		Tant, 22uF, 20%	. 1	Cap, 100pF, 5%, COG, 0603	Cap, 1uF, +80-20%, 0805	Description			
57850.641.023 VOL	DS3862WM	ADP-2-10-75	LM317T	UPG1678GV	ERJ-3GSYJ391	ERJ-3GSYJ181	3296W001502	ERJ-3GSYJ820	ERJ-3GSYJ241	ERJ-3GSYJ910		LL2012-FR33K	BLM21A121S	82MMCX-50-0-1	EHT-1-10-01-S-D	SFMC-105-L1-S-D	SFMC-110-L1-S-D	69190-403	SFMC-107-L1-S-D	T491C475M020AS	T491D226M020AS		ECU-V1H101JCV	GRM40Y5V105Z016AD	Part Number			
NOT 01	National	MiniCircuits	National	NEC	Panasonic	Panasonic	Boums	Panasonic	Panasonic	Panasonic	Panasonic	Toko	Militata	Suhner	Samtek	Samtek	Samtek	Berg	Samtek	Kemet	Kemet	Murata	Panasonic	Murata	Vendor			

FI6. 63



49 9±1

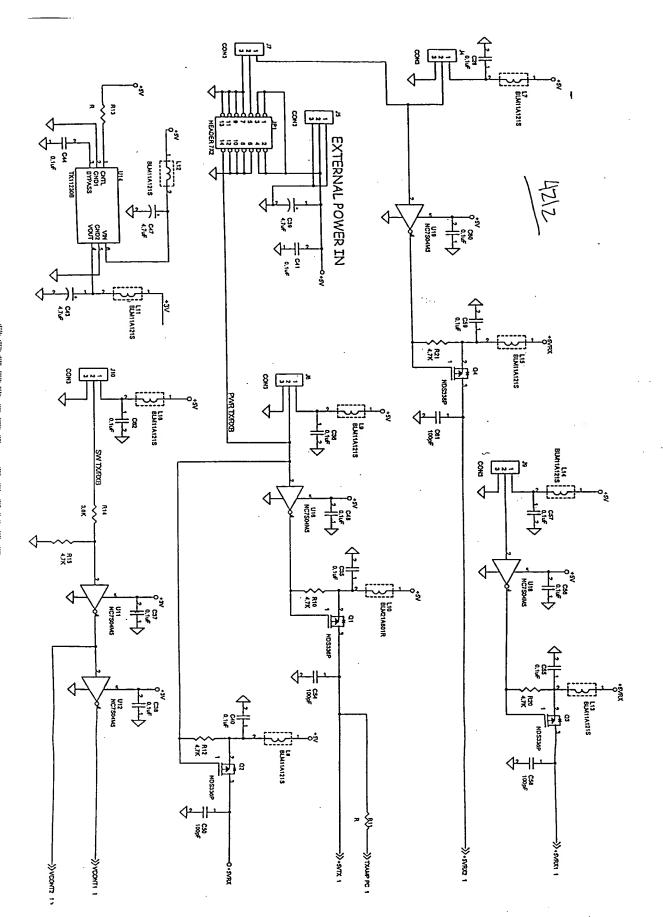
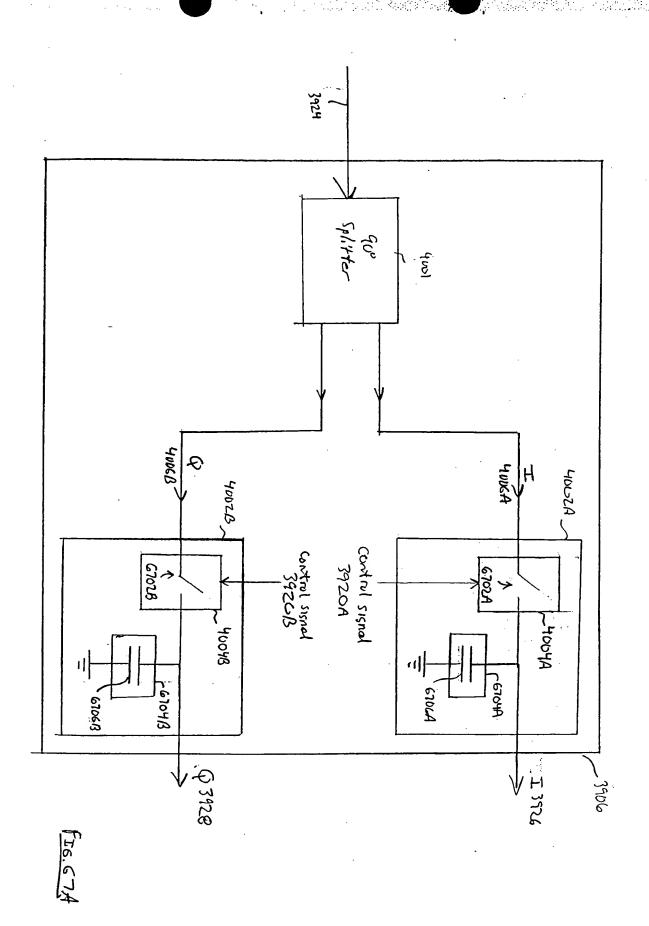
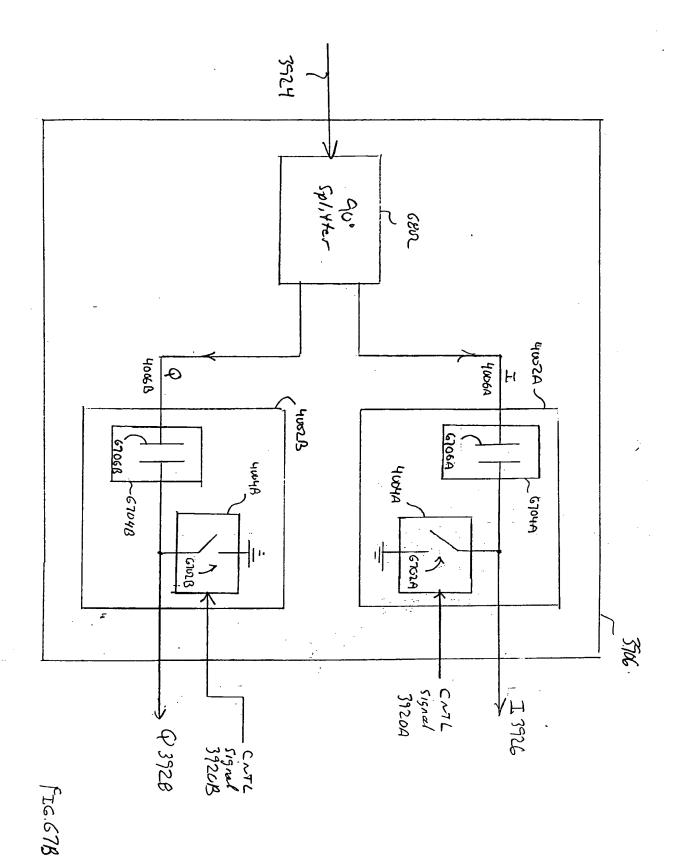


FIG. 65

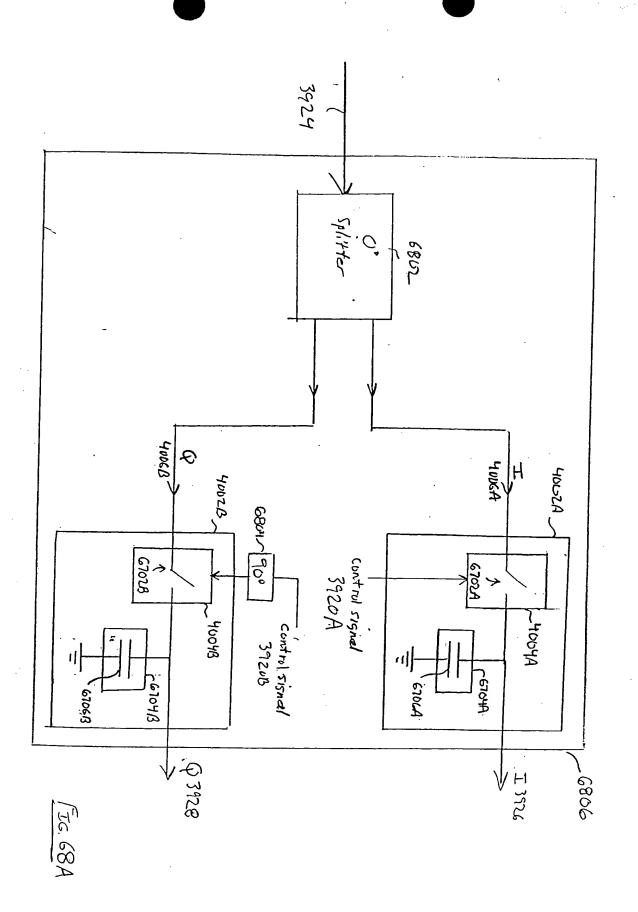
[5]	3	67	28	12	126	0	1	3 2	3 1	3 5	2 5	3 6	T	18	17		6	5	7	13	12	=	5	9	œ		শ	ை	တ	4	ယ	7	Γ			-1	Item	0	<u> </u>	'n
F	-	U	· -	4	-	F	-	†	1	1	- 0		+	12	4		9	4	2	6	ယ	-	2	-	3		<u>∞</u>	=	6	4	2	1				24	n Qty			
101/	U14	011,012,016,018,019	U4	02,03,06,07		14	-	12	73	T1	7 5,7 7,7 5,7 6,7 6		R13,R16,R17,R18,R19	R1,R2,R5,R6,R7,R9,R11,	Q1,Q2,Q3,Q4	L15,L16	L7,L8,L9,L11,L12,L13,L14,	L2,L3,L5,L6	L10,L1	J4,J5,J6,J7,J9,J10	J1,J2,J3	JP1	FL1,FL2	C52	C39,C43,C47	C58,C61	C15.C16.C21.C22.C50.C54		C11,C13,C25,C26,C27,C46	C8,C9,C23,C24	C10,C7	C4	C56,C57,C59,C60,C62	C38,C40,C41,C44,C48,C55,	C19,C20,C28,C35,C36,C37,	C1,C2,C3,C5,C6,C17,C18,	/ Reference	UII OI MAGINIO	otosio lo	
RF2128P	TK11230B	NC7S04M5	UPG152TA	MAAM22010	100 ohm, L=200 mil, W=10.	67 ohm, L=200 mil, W=30.7	102 ohm, L=220 r	50 onm, L=100 mil, W=54 mil	ou onm, L=100 m	0.07	4./5	100		R	NDS336P	·	BLM11A121S	22 nH	BLM21A601R	CON3	82MMCX-50-0-1	HEADER 7X2	MDR642E	33pF	4.7uF	1	100nF	807	100F	470pF	22pF	330pF				0.1uF	Part	-		
RFMD	ТОКО	National	NEC	MACOM	nil, W=10.7 mil	il, W=30.7 mil	L=220 mil, W=10 mil	ii, W=54 mil	L=100 mil, W=20 mil	Panasonic	Panasonic	Panasonic		Panasonic	National		Murata	Collcraft	Murata	Berg	Suhner	Samtec	Soshin	Murata	Panasonic	is in the control of	Mirete	Mirata	Miliata	Murata	Murata	Murata				Murata	Manufacturer			
ear Amplifier		Inverter	RF Switch		L=200 mil, \	67 ohm, L=200 mil, W=30.7 mil	L=220 mil,	50 ohm, L=100 mil, W=54 mil	80 ohm, L=100 mil, W=20 mil	0603, 3.6K, 5%, 1/16 W	0603, 4.7K, 5%, 1/16 W	0603, 100, 5%, 1/16 W			P-Channel FET			1 5%	600 chms@100MHz 500 mA Farite Bead	3 pin header w retentive len	RF Connector	Dual Row. 7 pins per row	2.4-2.5GHz BPF	330pF.0603.COG.10%.50	4.7 uF tantalum 16V	100pr,0003,COG,10%,50	1005 0603 COC 10%,50	85E 0603 COC 40% 50	1005 0603 000 108/50	470nE 0603 COC 1087 FO	22pF 0603 COG 10% 50	330pF.0603.COG 10% 50				1uF 0603 X7R 20% 16V	Part Description			
RF2128P	TK11230B	NC7S04M5	UPG152TA	MAAMOOOO						ERJ-3GSY-J-362	ERJ-3GSY-J-472	ERJ-3GSY-J-101		1100000	NDC3360	DCIVILIAIS IS	BI W11 V1218	חשחהה שמחע שה	BI M31 A6040	OZIAIIAICV-20-0-1	1200-10/-01-T-D	בדפט אסז סא בי ס	MODE STANDED	CBW39COC330K06	ECO TICVIZED	GRM39COG101K050	GRM39COG080K050	GRM39COG100K050	GRM39COG471K050	GRIMISAC OR STOKEN	GENIOCO GOSTAGO	COMPONENTAL			GLINIANI ZI VARIOLIO	Carranting	Dort Mirmhor			

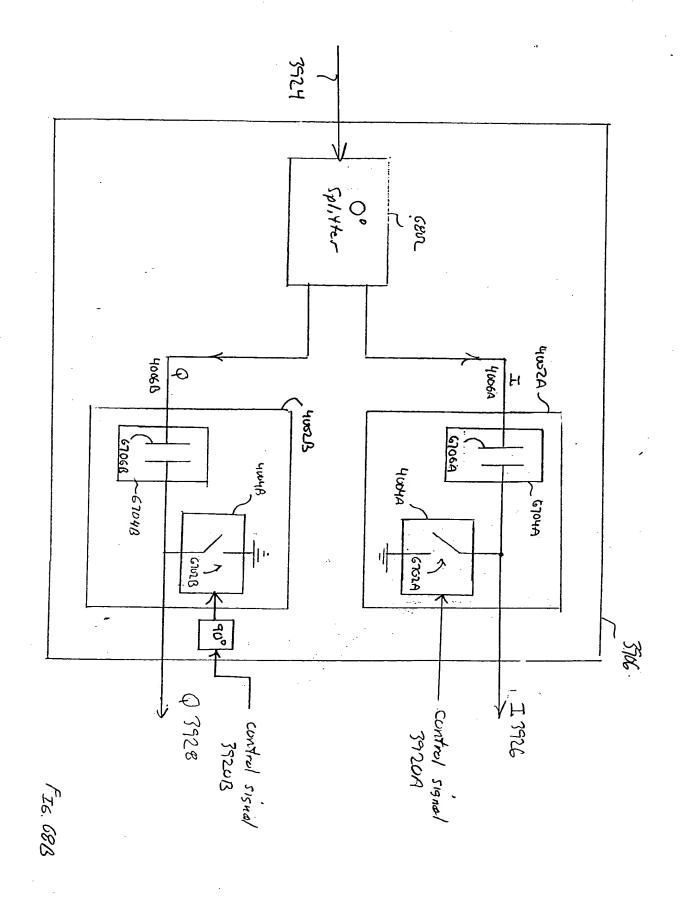
99.974





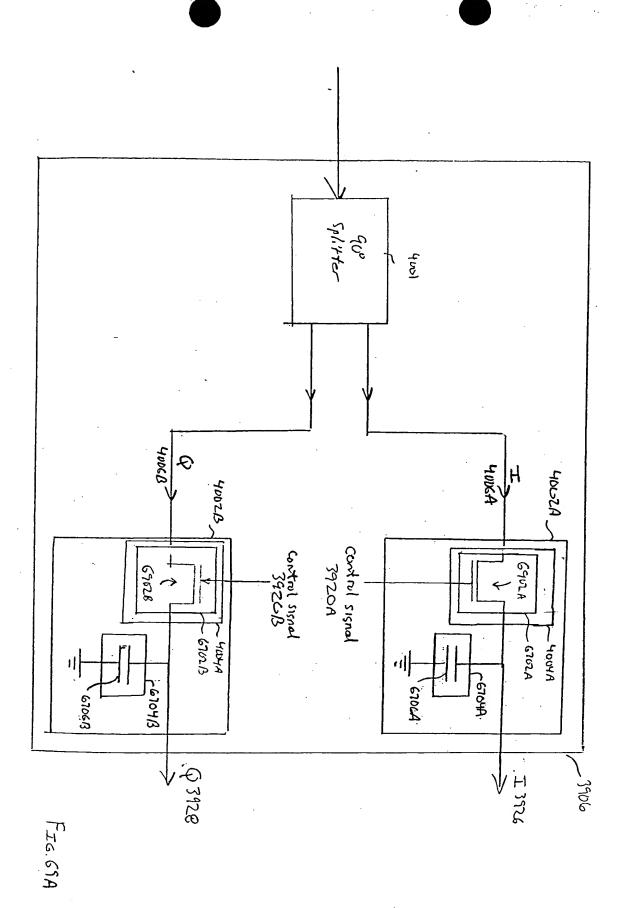
42-392 IUU RECYCLED WHITE 5 SOUALIE 42-399 200 RECYCLED WHITE 5 SOUALIE Marie en U.S.A.



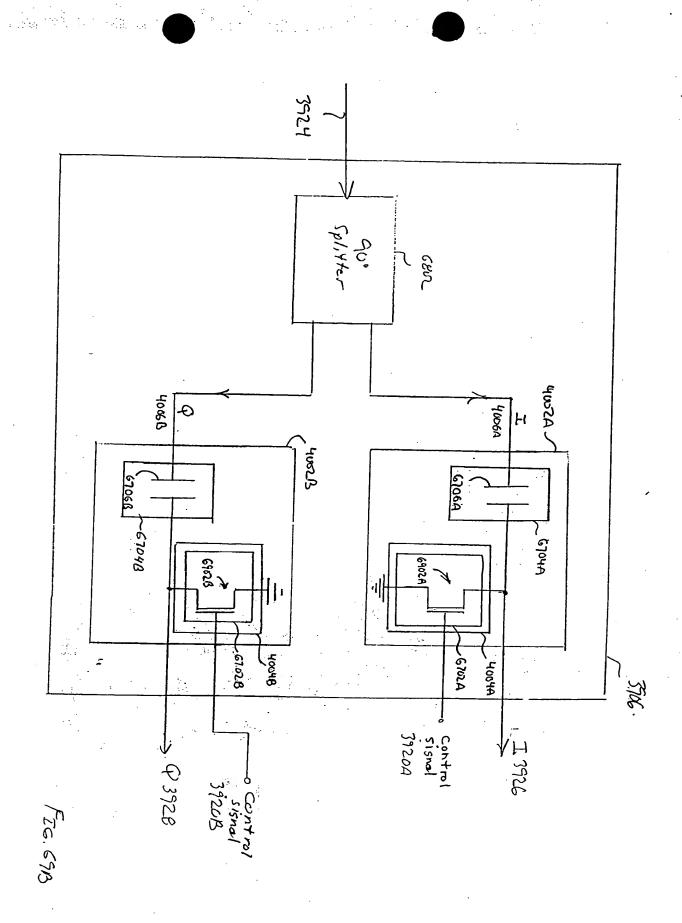


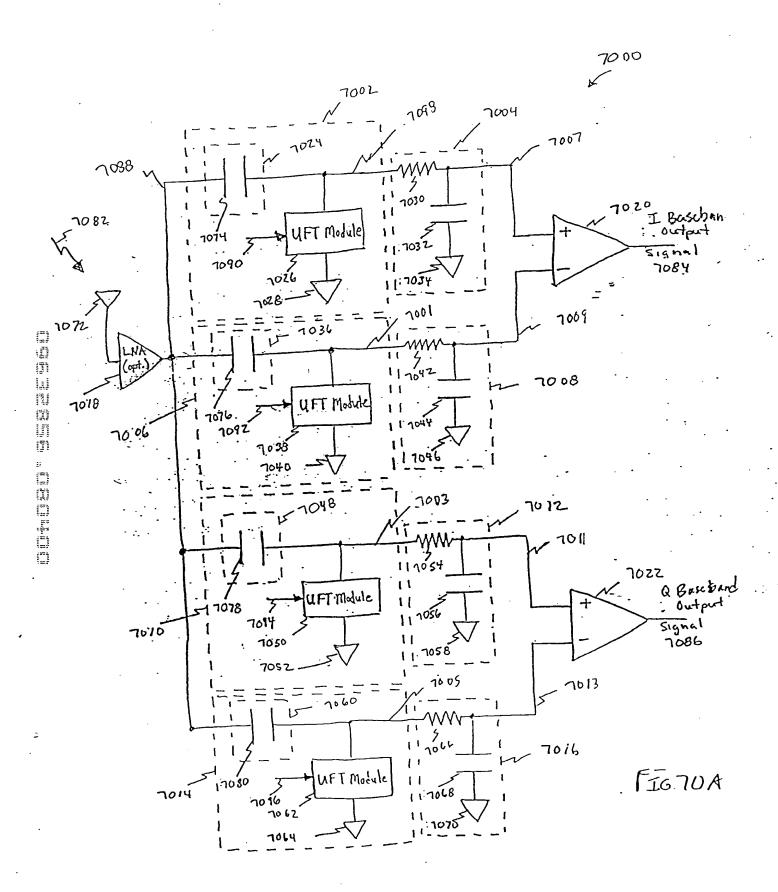
42-392 100 RECYCLED WHITE \$ \$\$104RE 42-399 200 RECYCLED WHITE \$ \$000AHE Median 0 8.A

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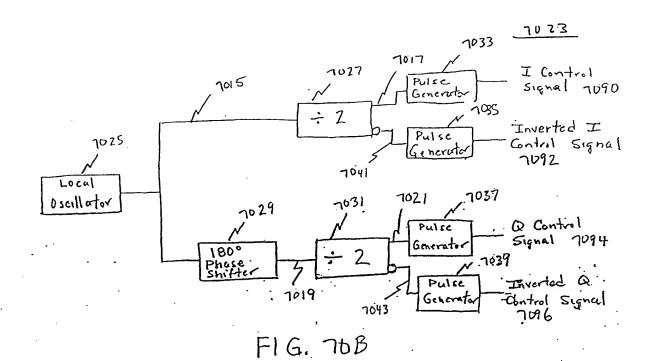


OF THE PLAN





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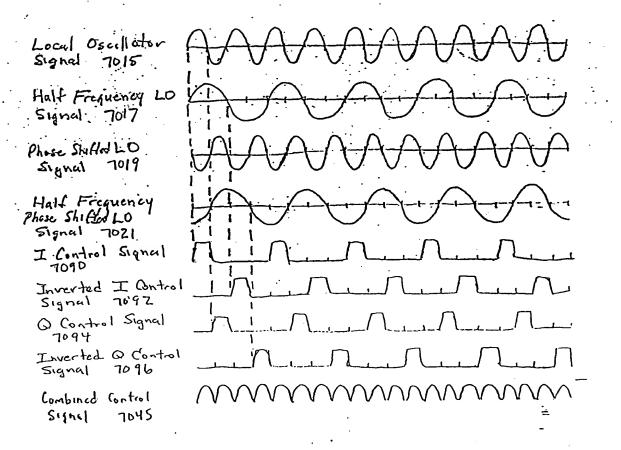


FIG. 70 C

The first state of the state of

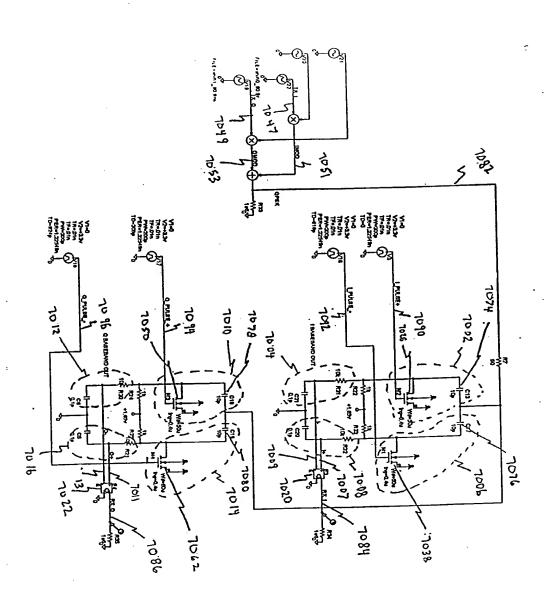
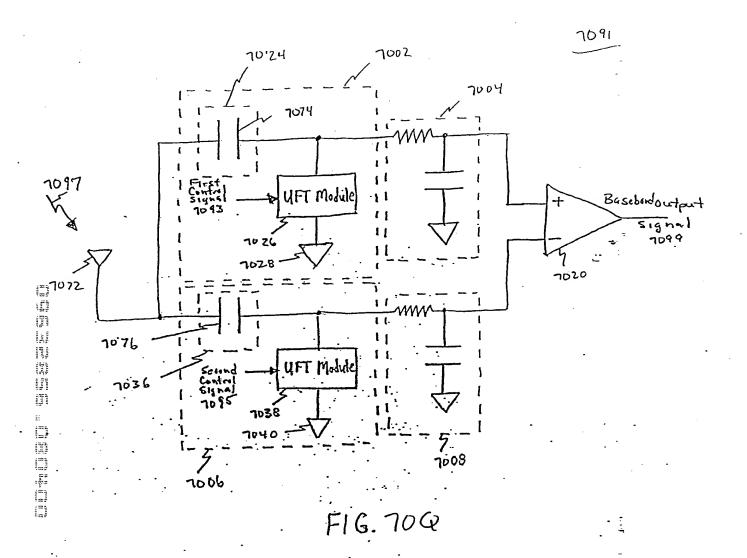
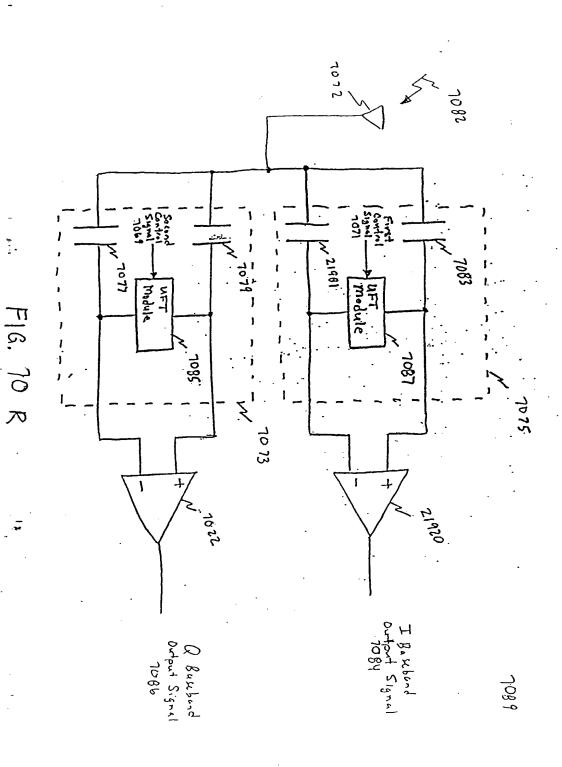
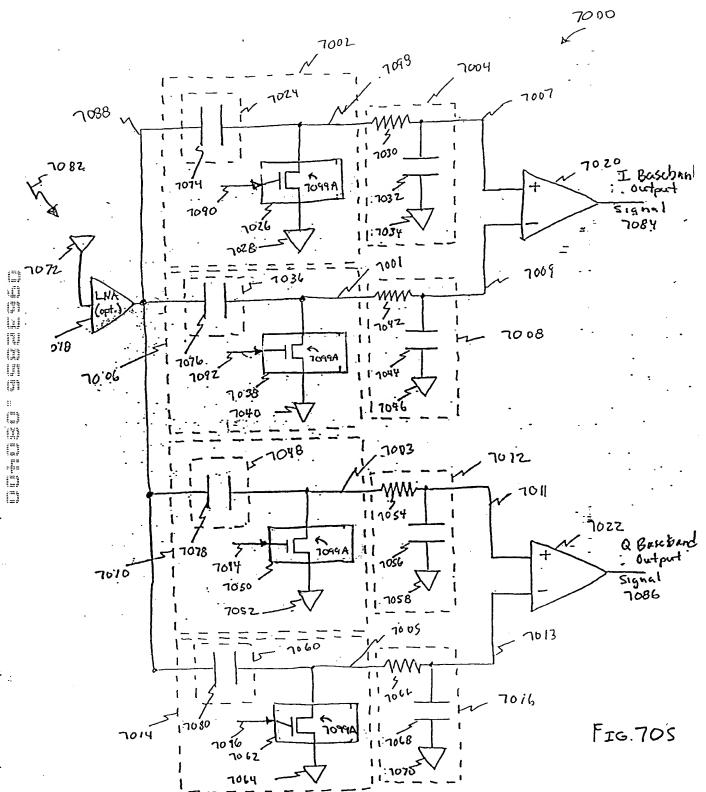


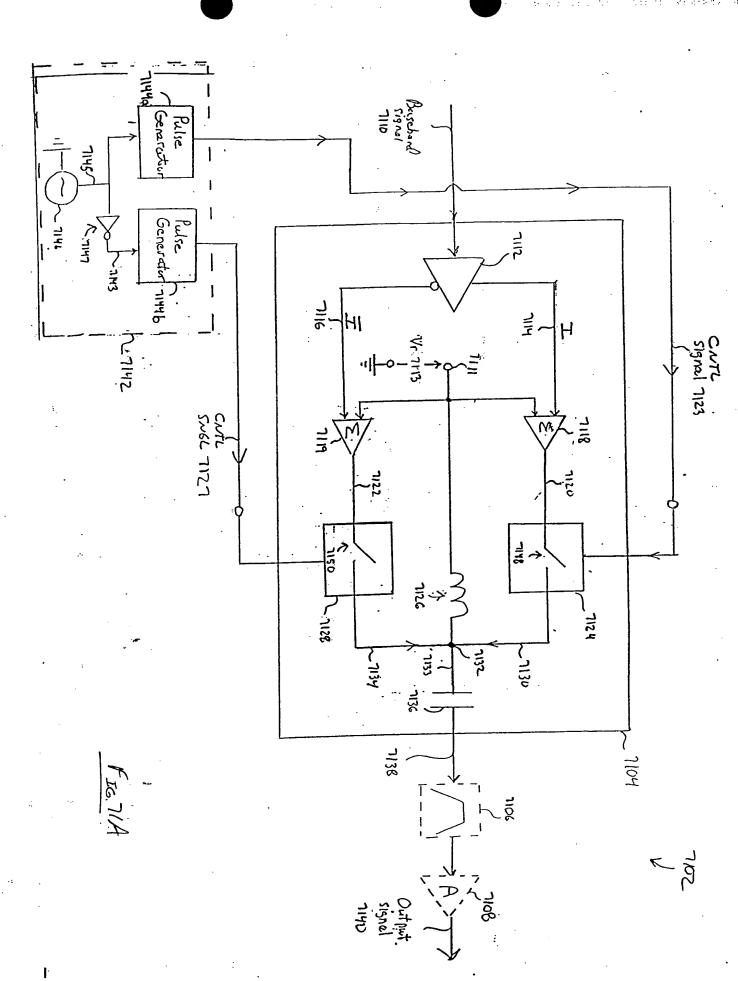
FIG. 70E

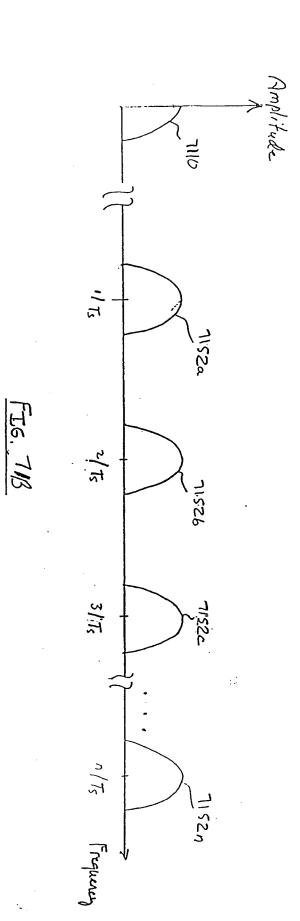
F16.70L FIG. TOT: 1516.70K FIG. 70J FIG. 70H -100mV SEL>>/ -200mV -100mV 100mV 7 100mV 100mV T -100mV T 1.160us o V(RX_Q) o V(RX_I) o V(QPSK) D V (QMOD) (B) IQDEMOD SHOWING QPSK MOD OUTPUT (TOP) WITH IMOD AND QMOD AND I AND Q DATA (BOTTOM) D V(IMOD) 18.01 haol 7053 1.180us 7051 7082 -350r-Page 1 Jose 5501 7055 Time

The first person was the first










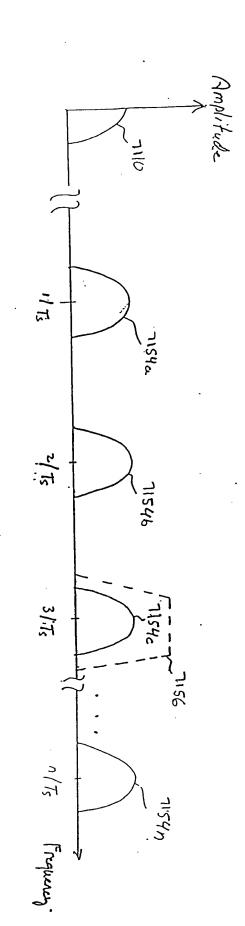
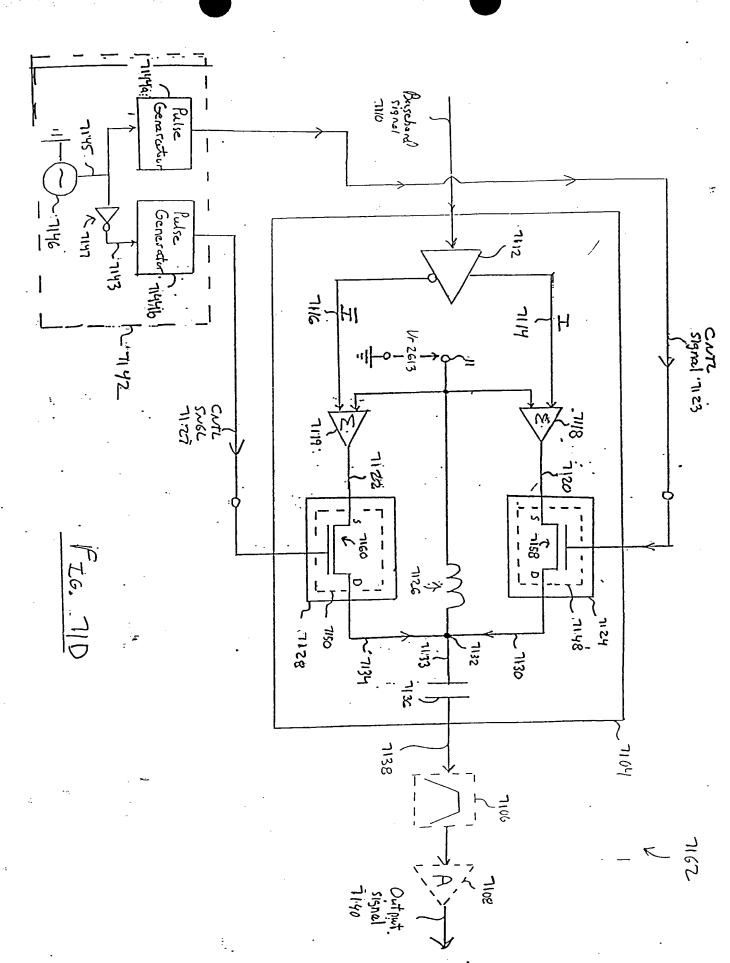
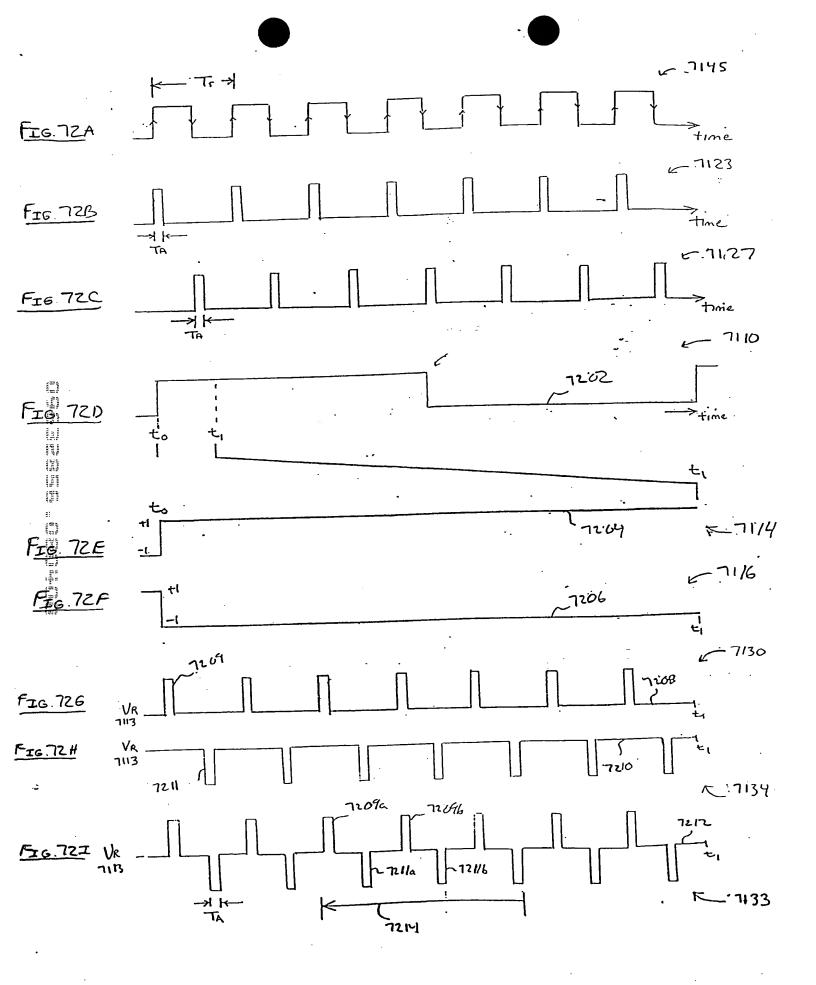


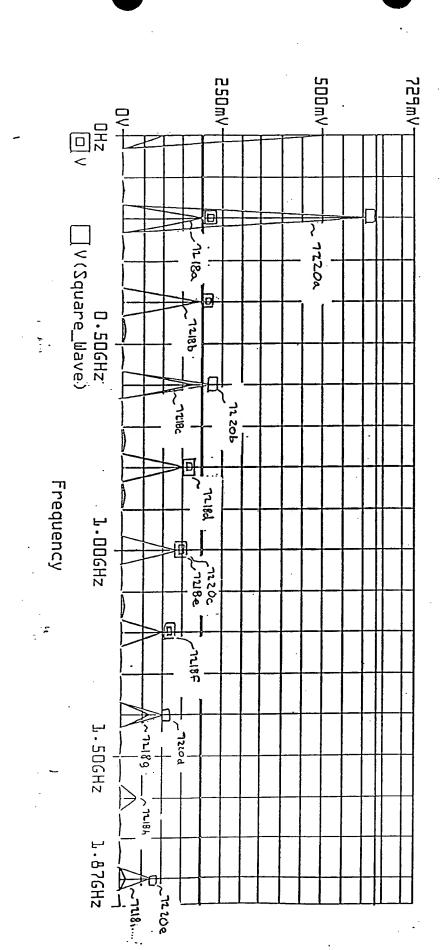
FIG 71C



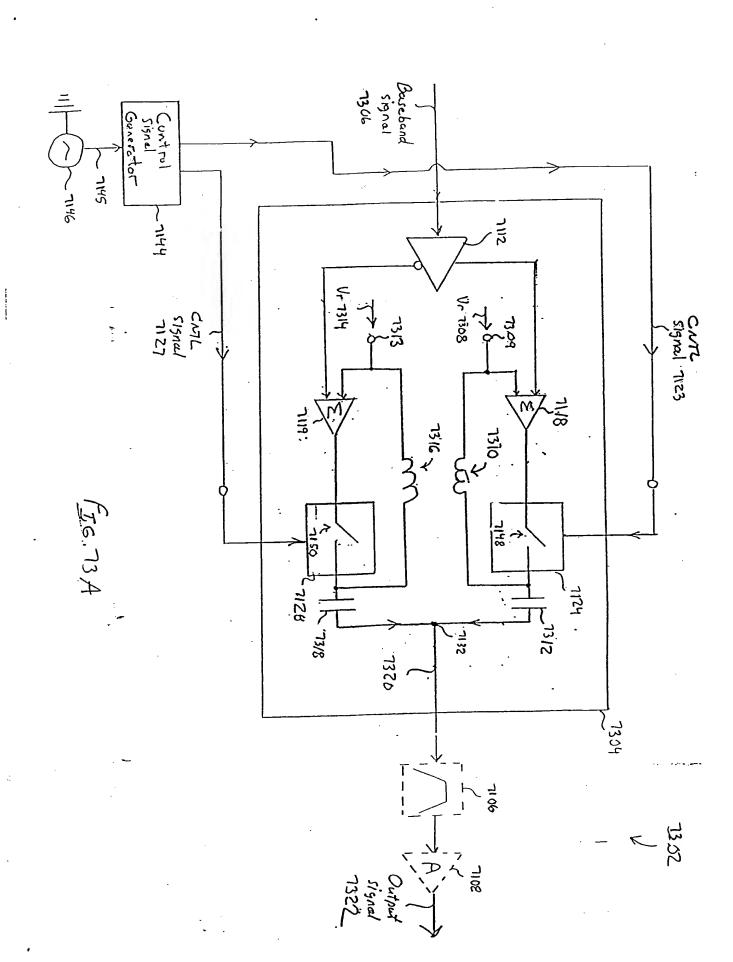


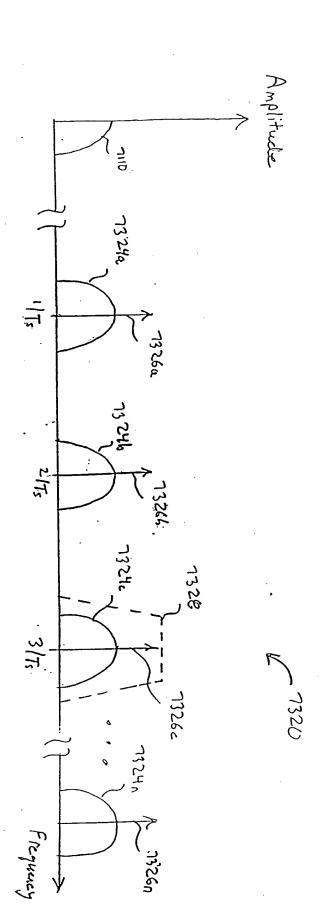
Aperture = 500ps
Fundamental Clock = 200Mhz (5th Subharmonic)

Square Wave Frequency = 200Mhz



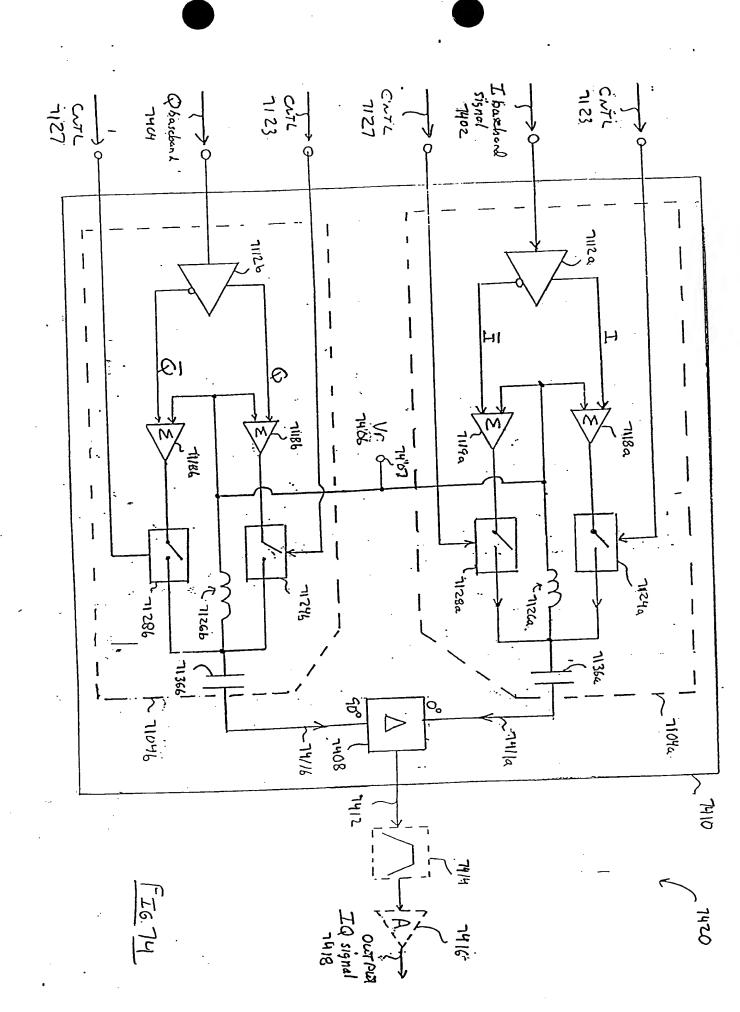
(IG. 72)

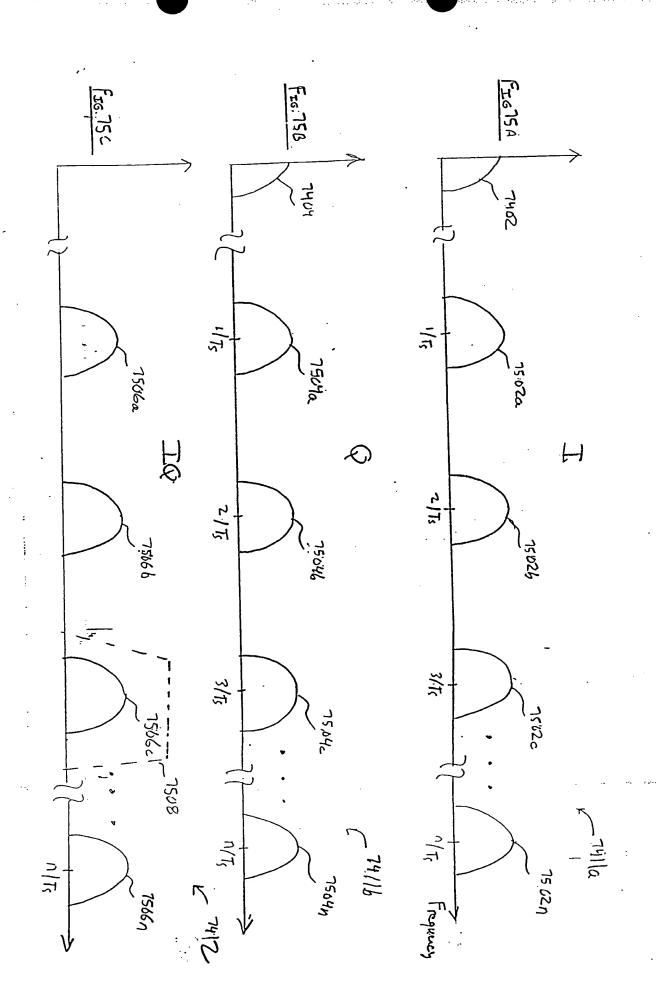


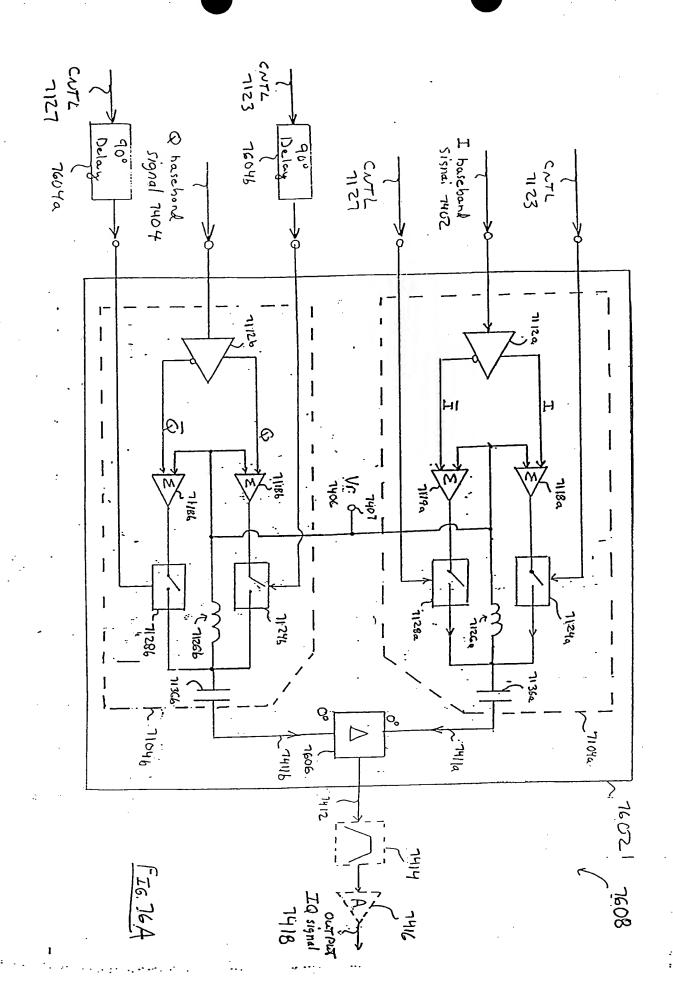


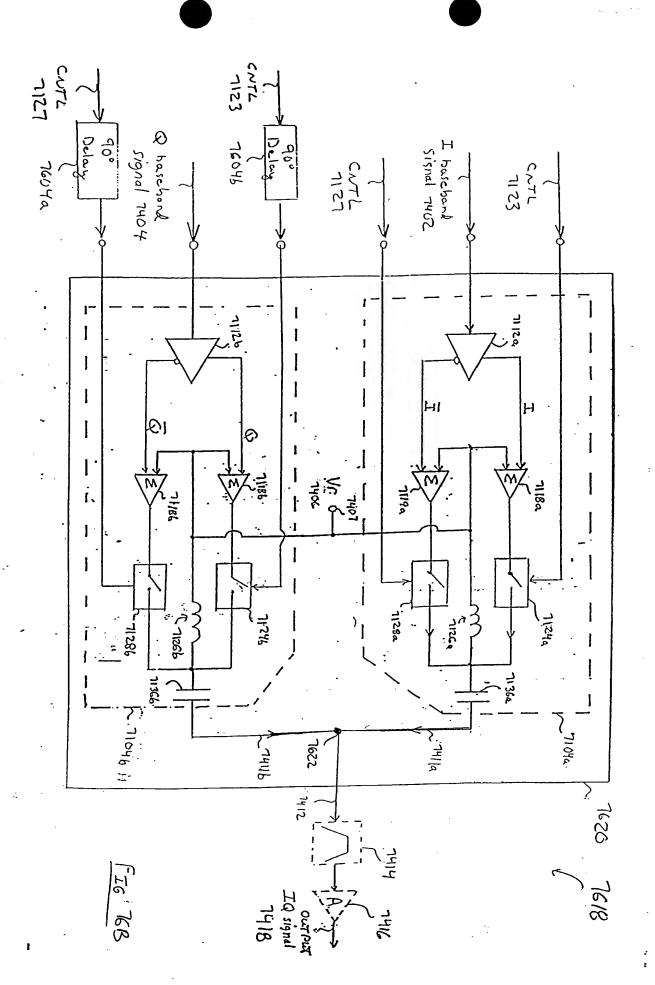
The state of the s

FIG. 73B



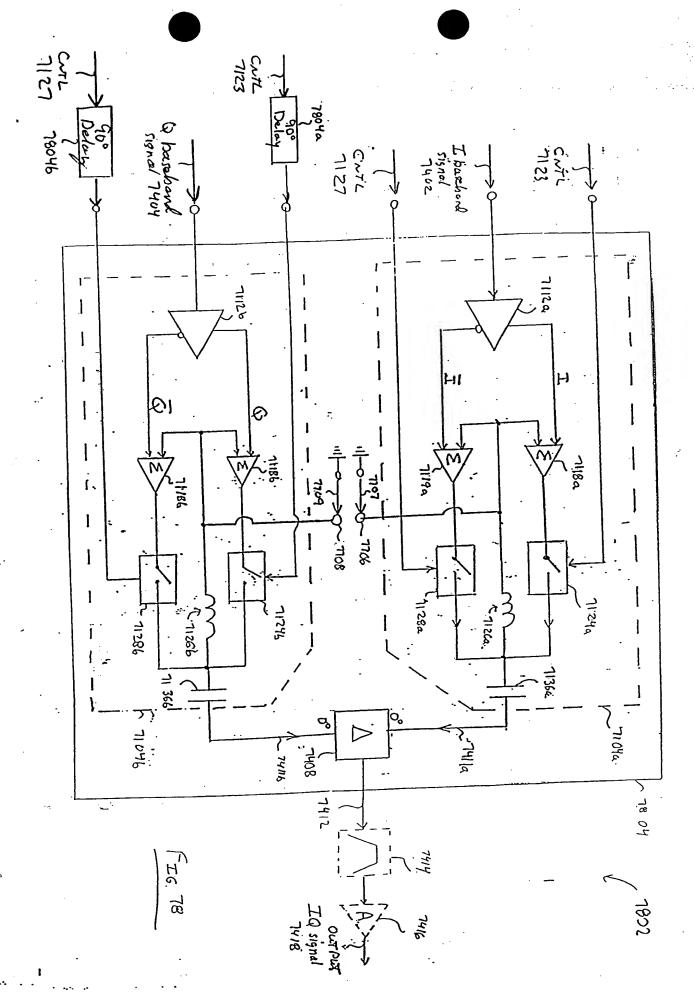


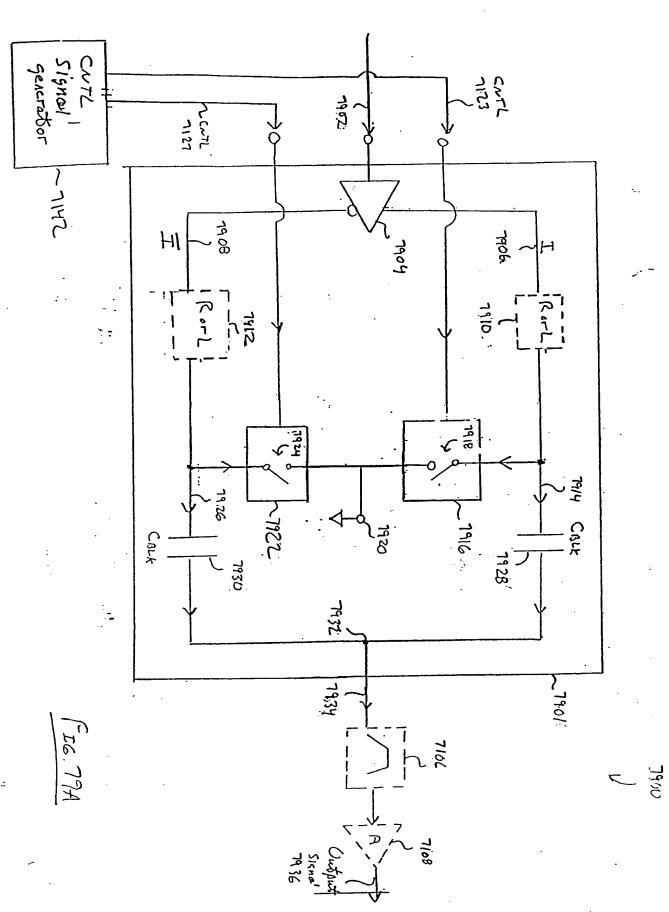


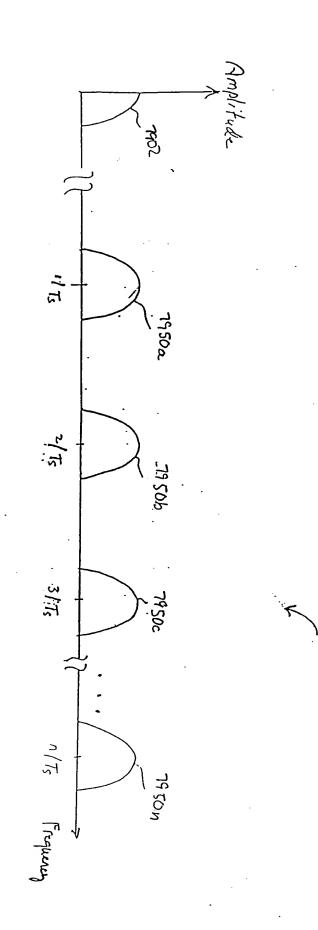


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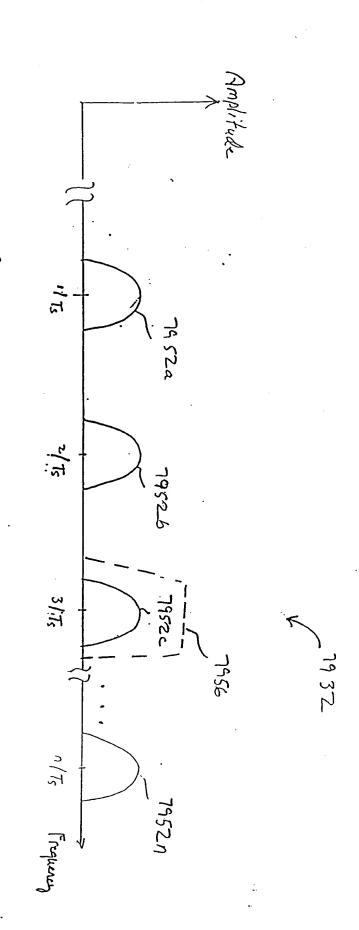


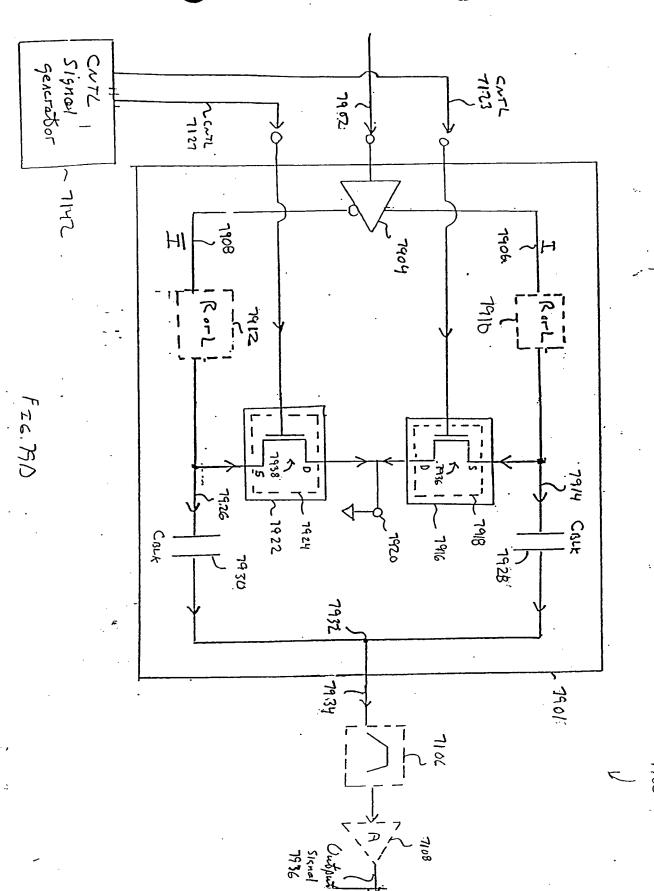


FEG. 79B

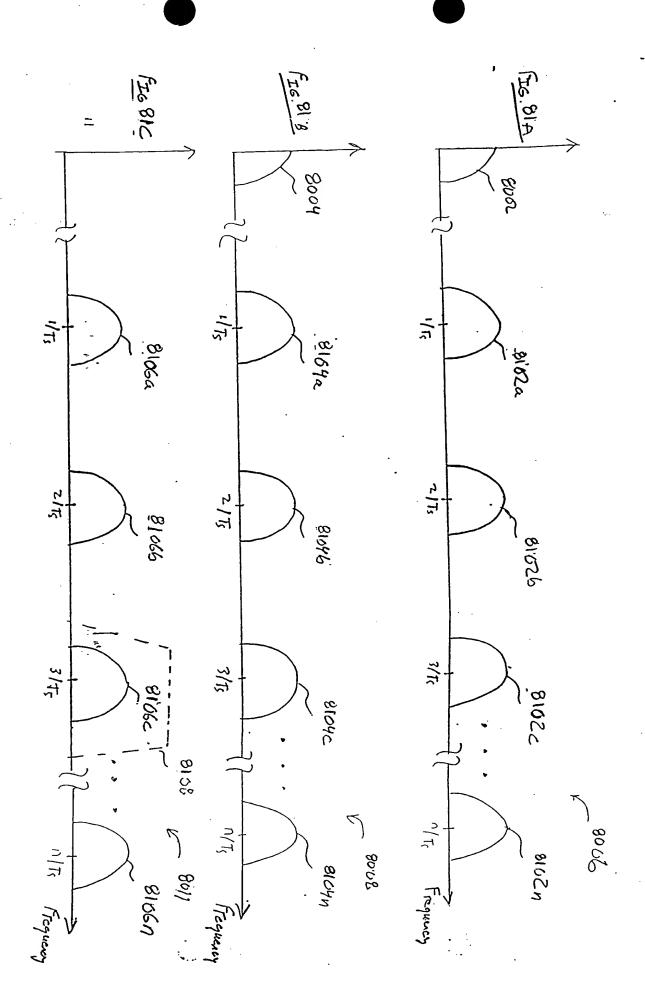
,

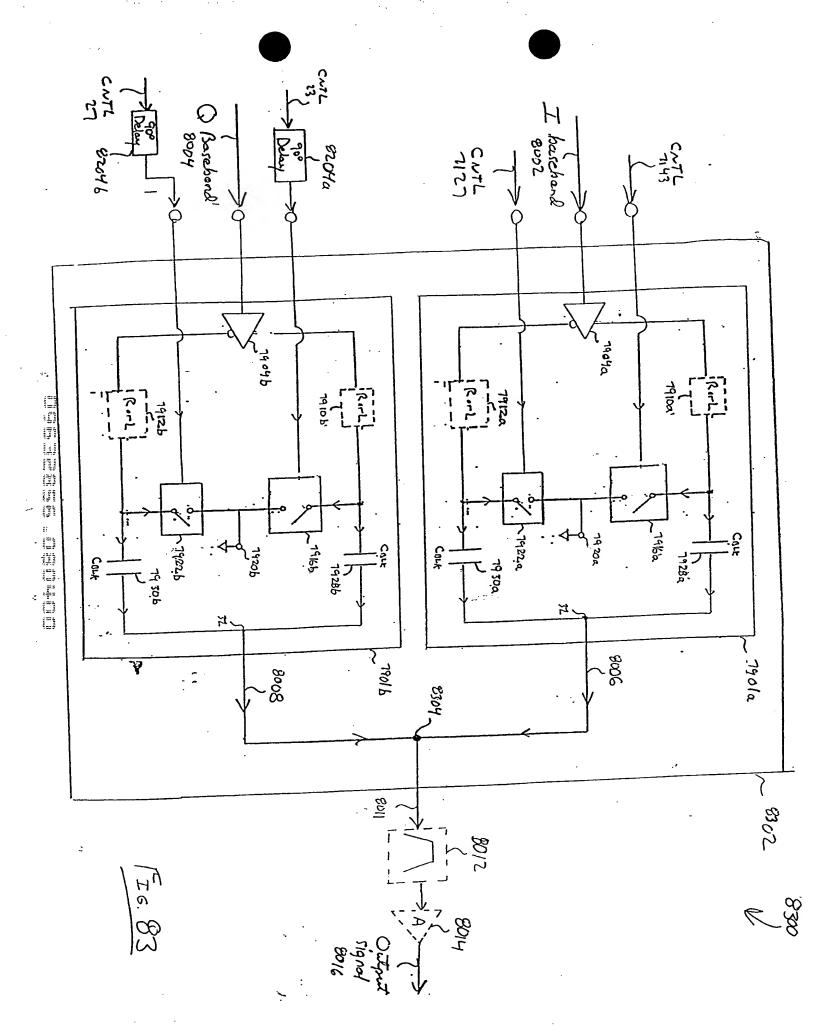
FIG. 79C





7900





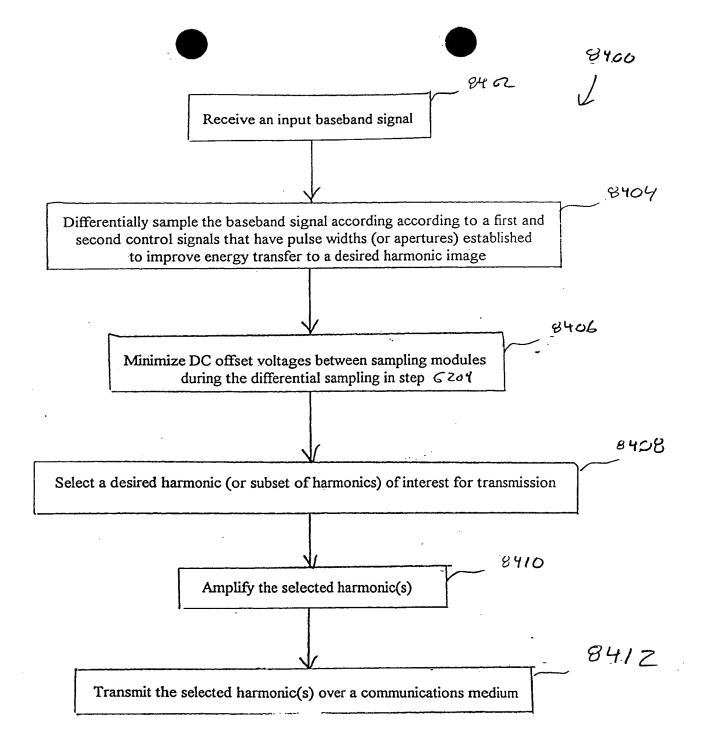
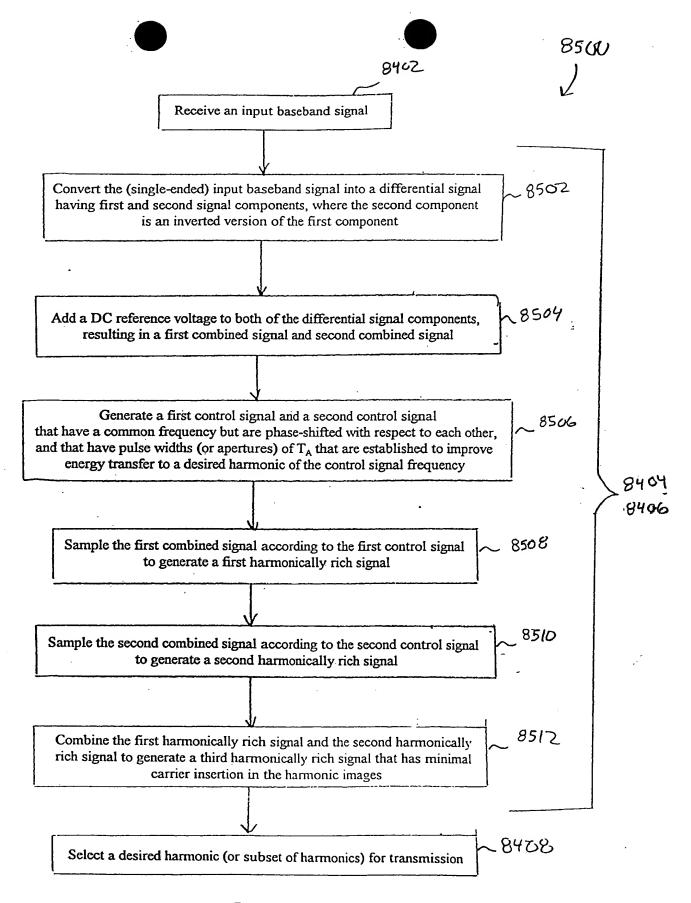


FIG.84



FIE. 85

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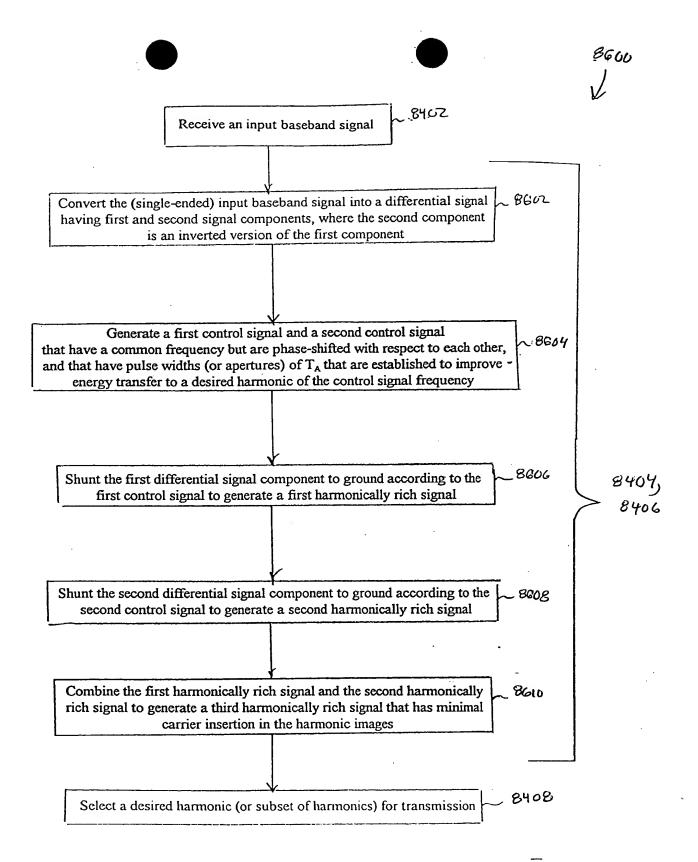


FIG. 86

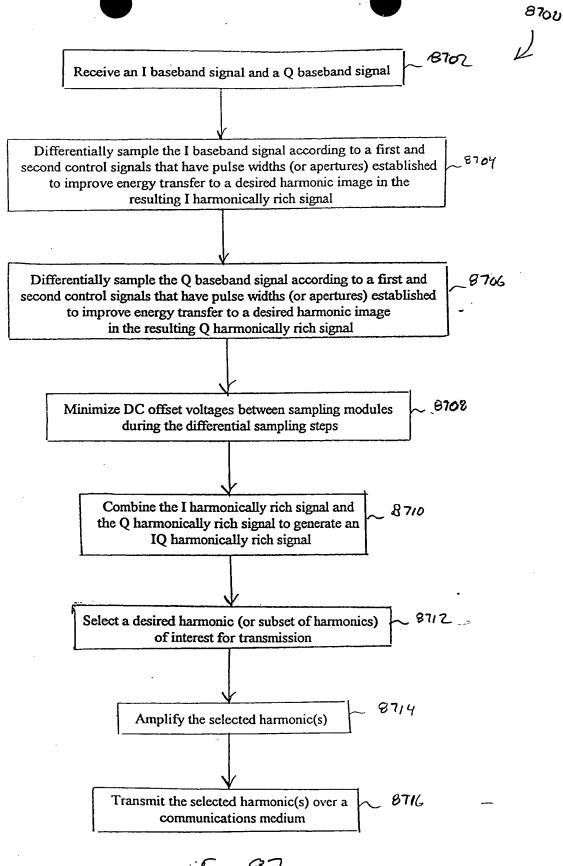


FIG.87

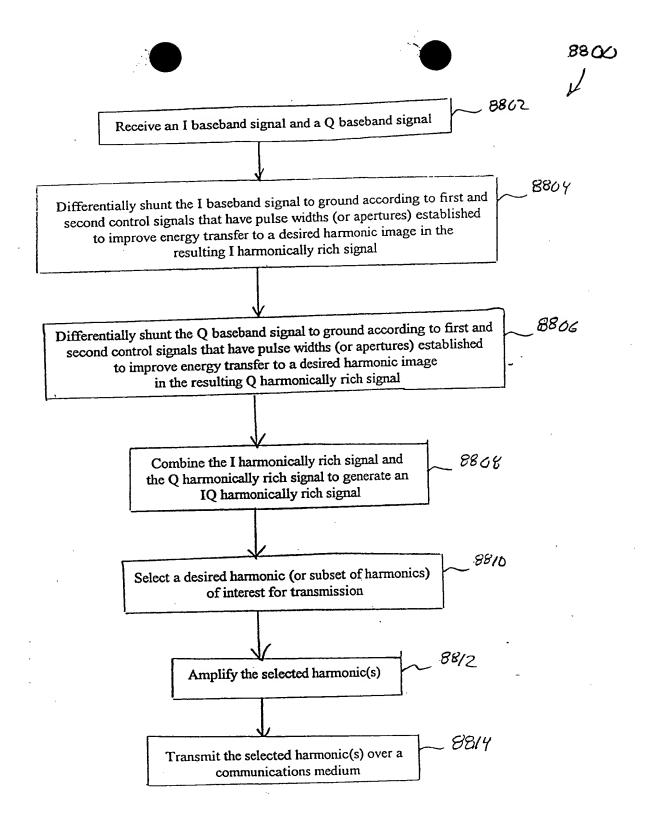
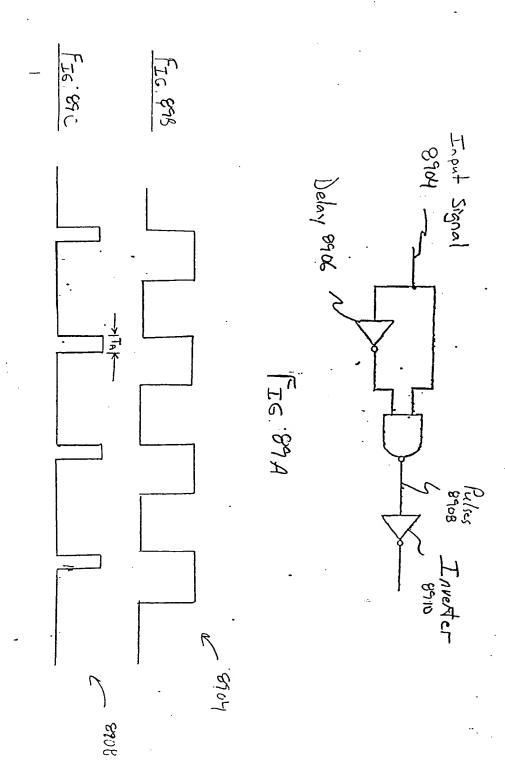
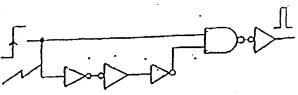


FIG. 88



8912

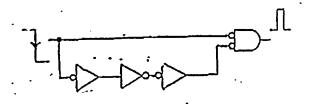


A. rising edge pulse generator

FIG. 890

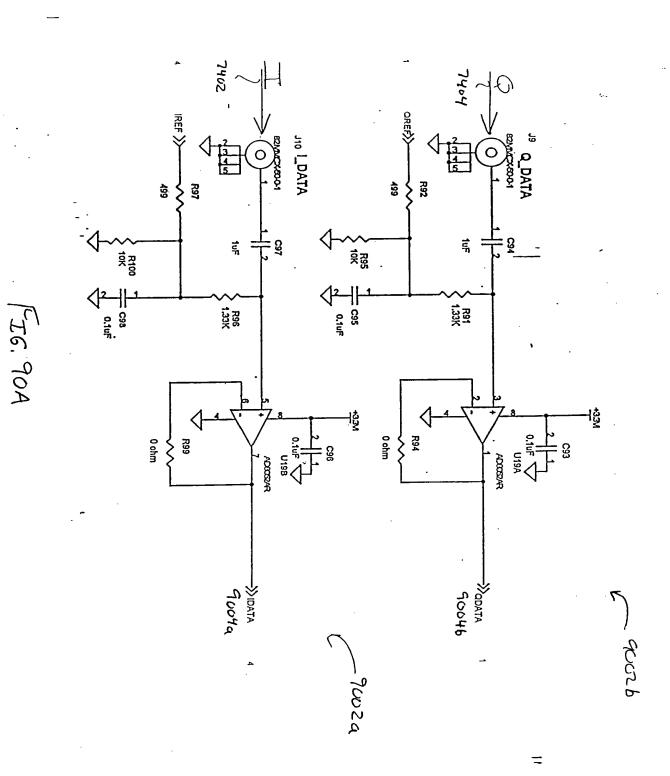
6916

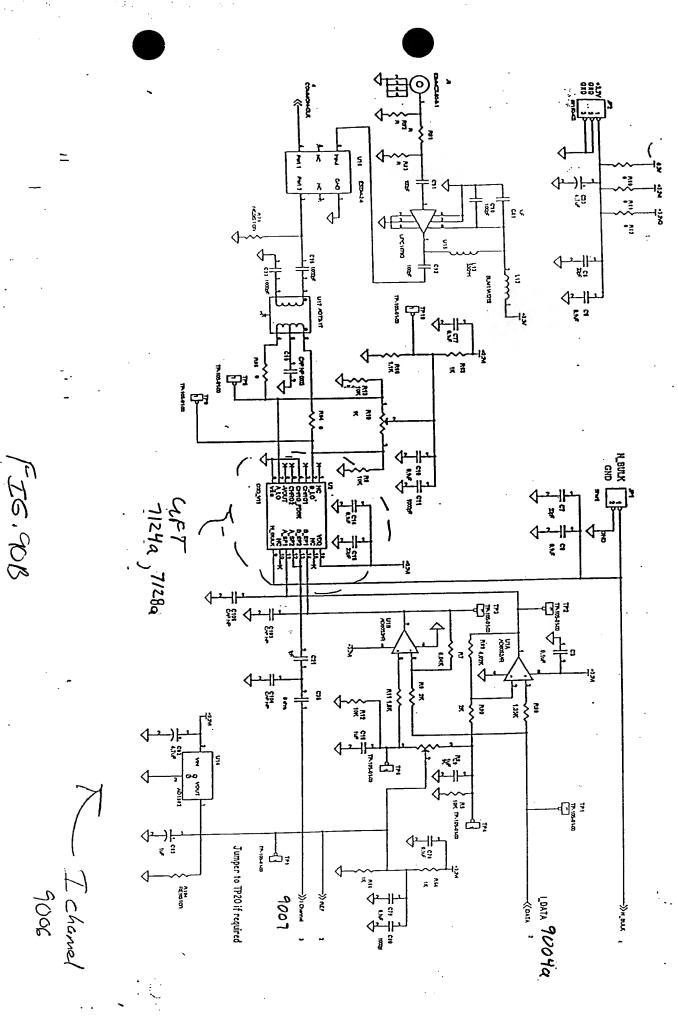
A S A Street B S Sand Starte S

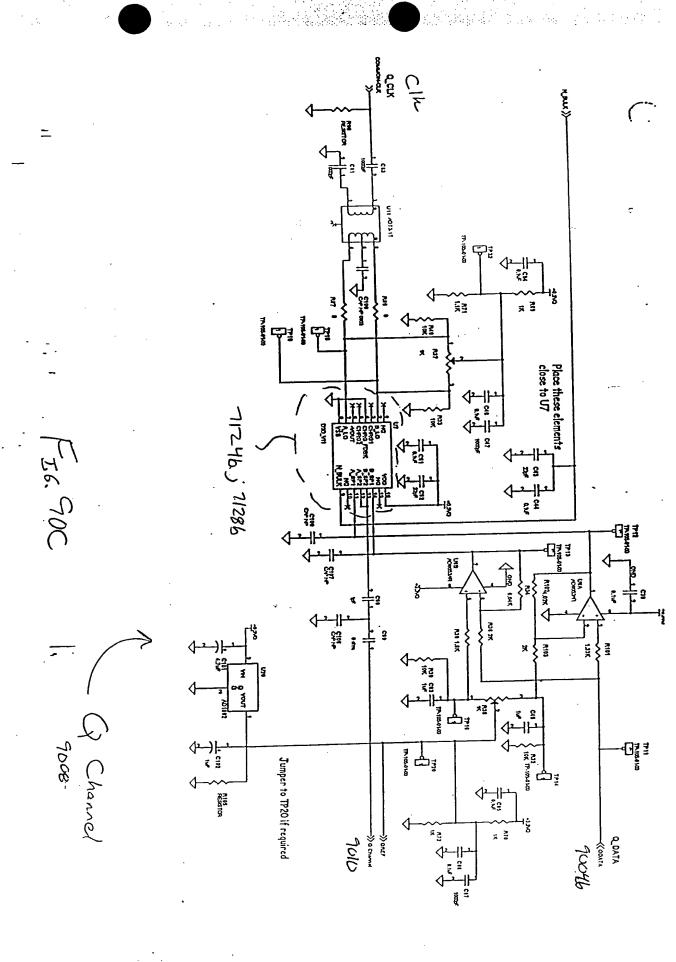


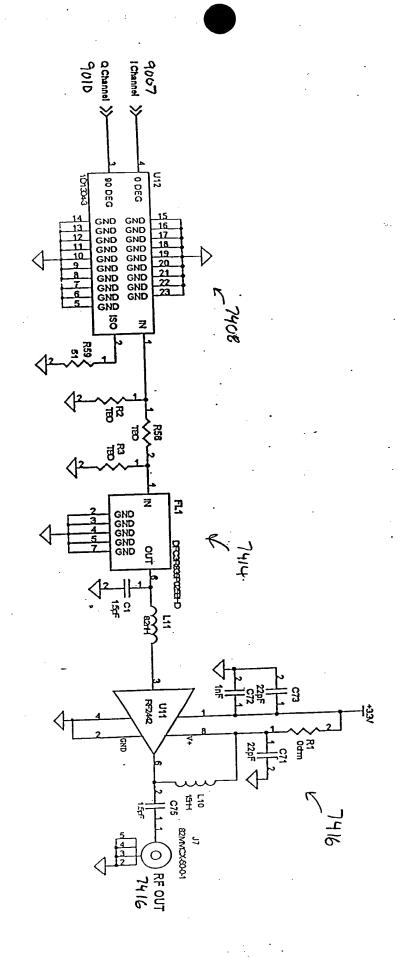
B. falling-edge pulse generator

FIG. 89E



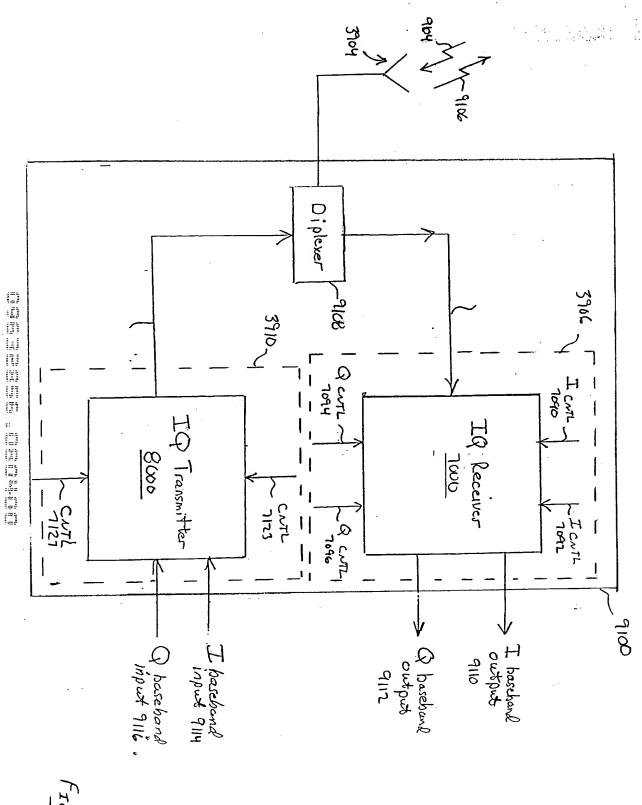




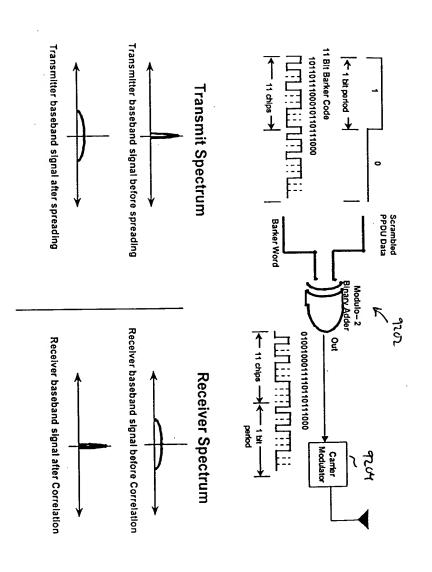


(100 SOL)

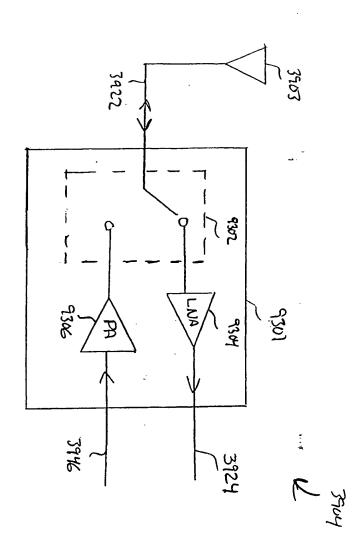
2012



15.51



Fz692



IG. 93

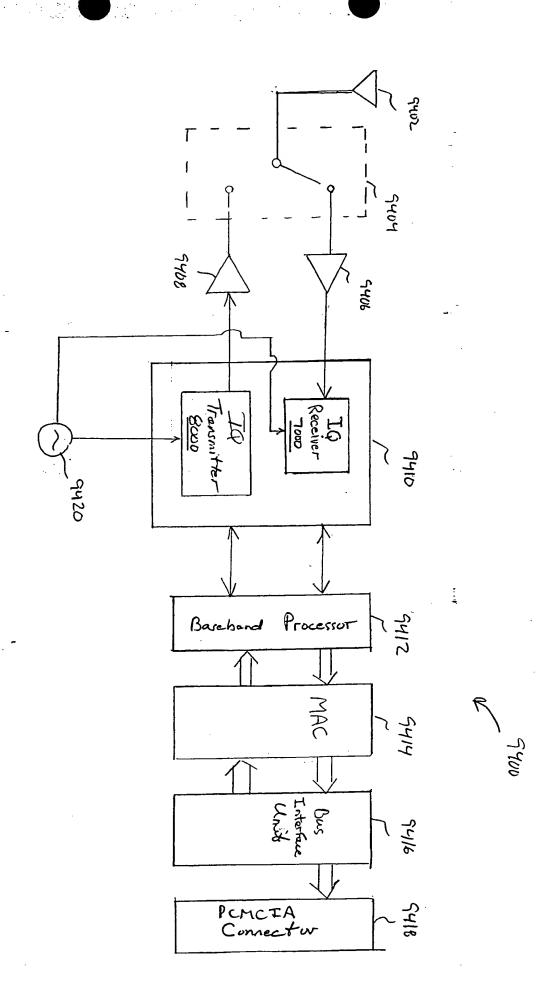


FIG. 94

The first of the first first that the first firs

FIG. 95B

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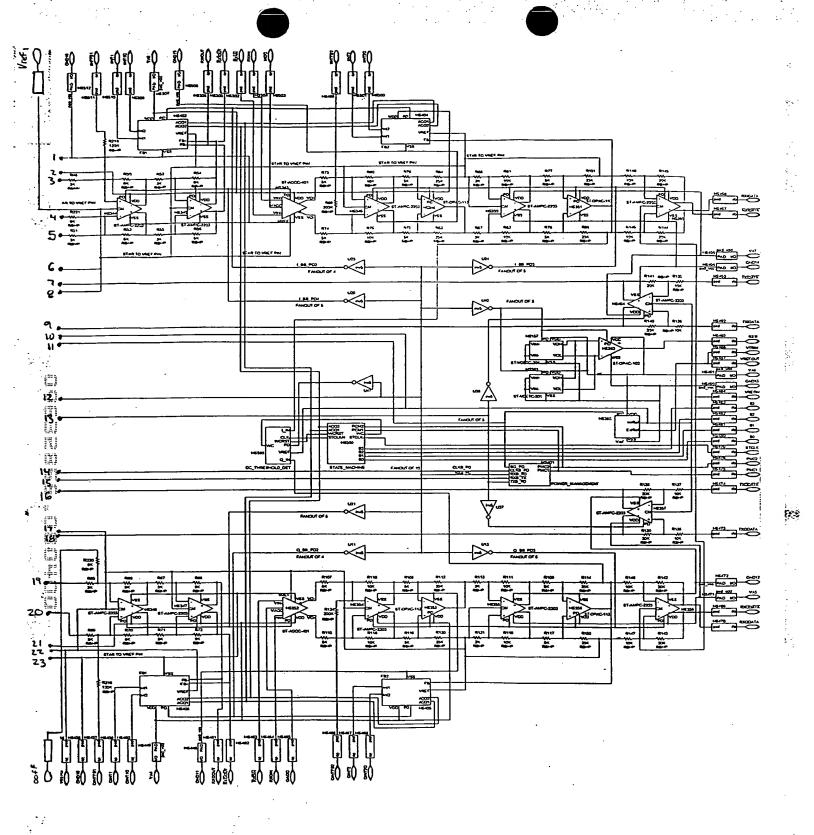


FIG. 95C

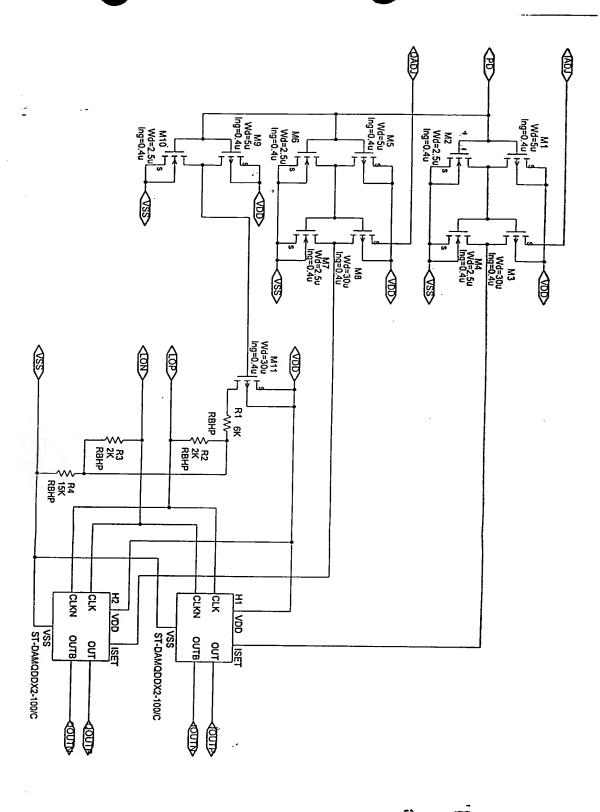
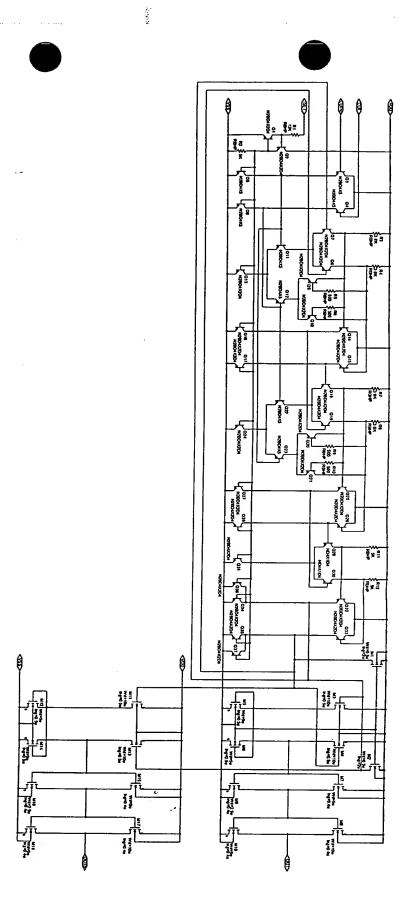
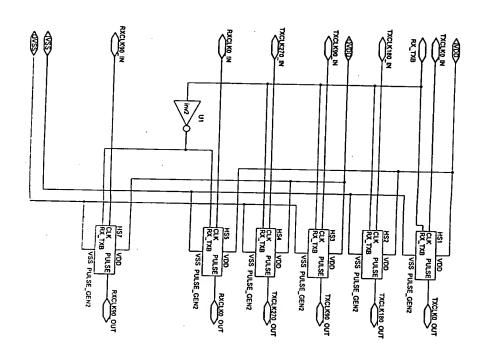


FIG. 96

FIG. 17

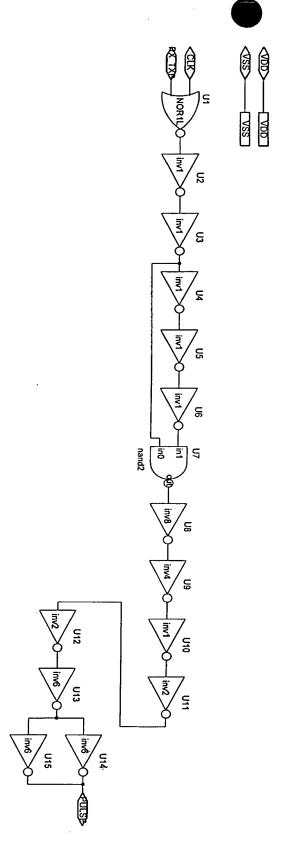


Fre. S8

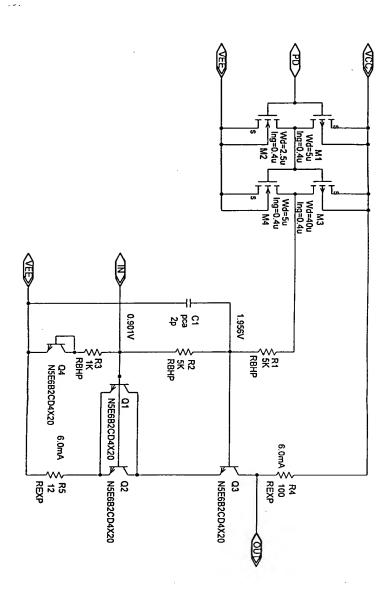


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PEG. 99



36.50



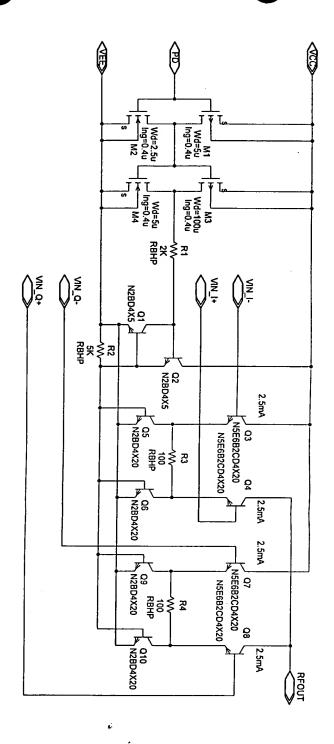


FIG. 101

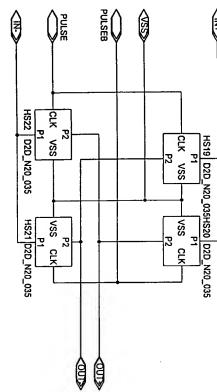


FIG. 102

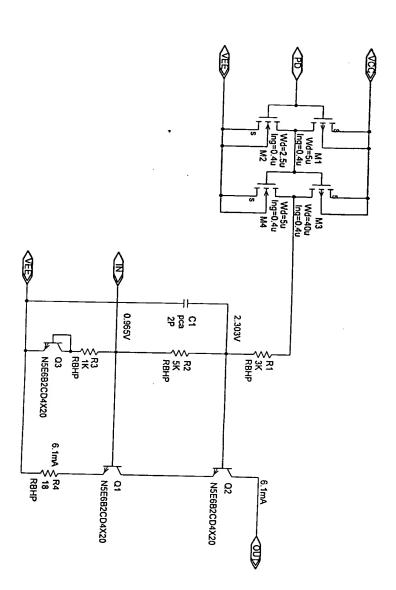


FIG 103

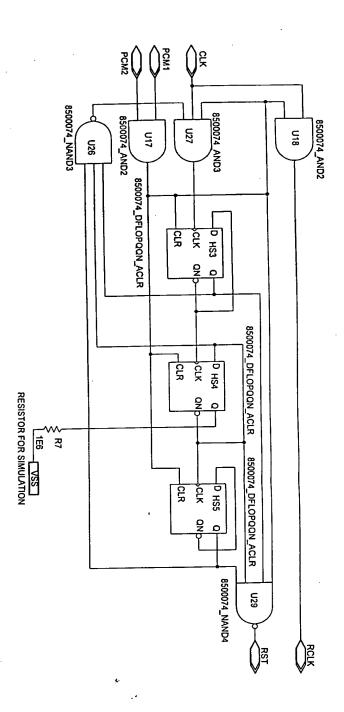
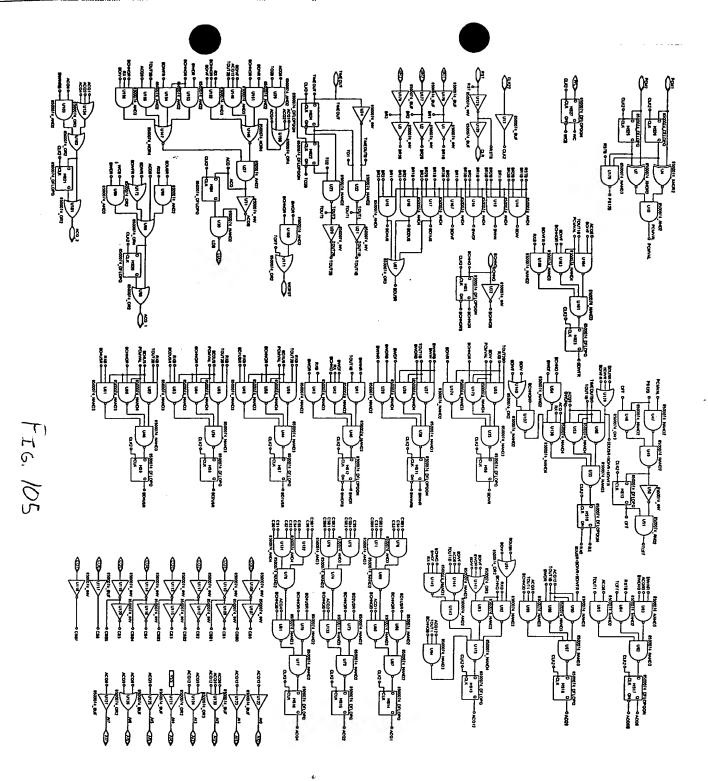
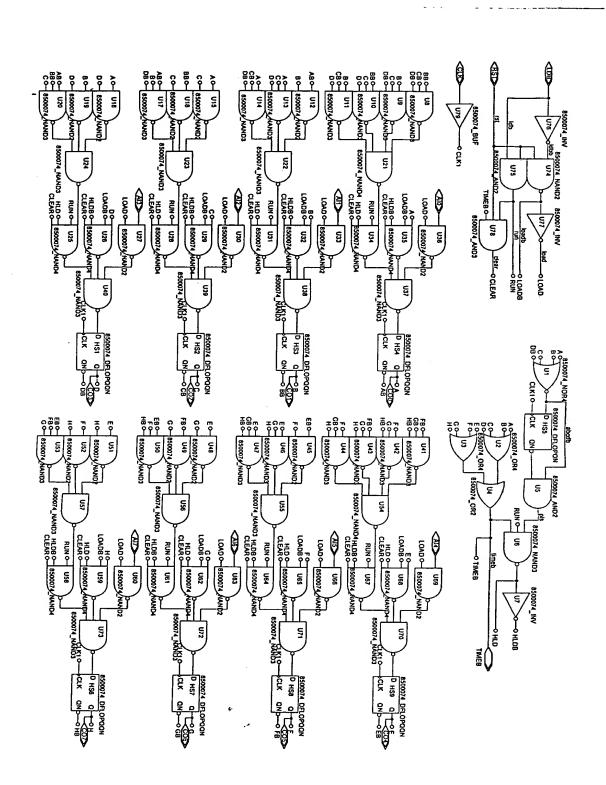
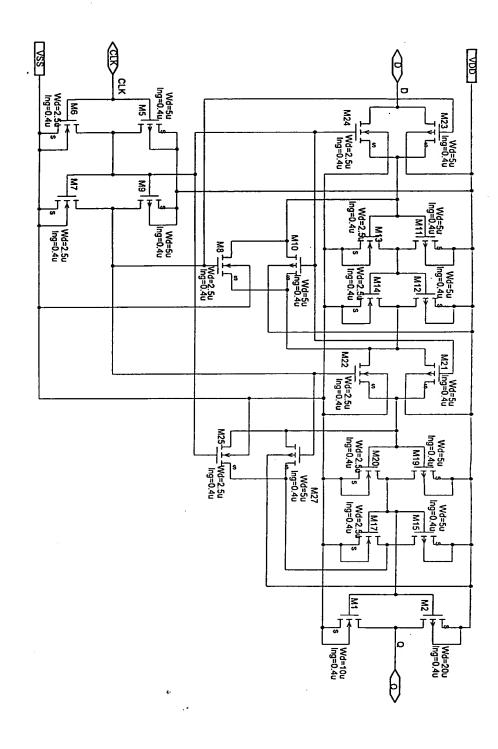


FIG 104





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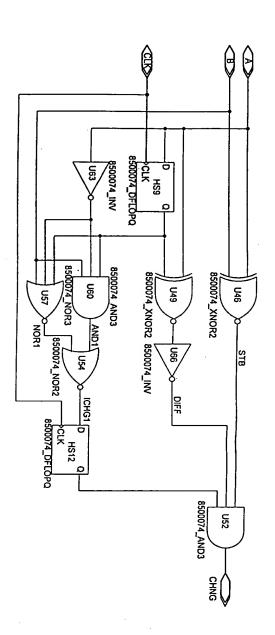
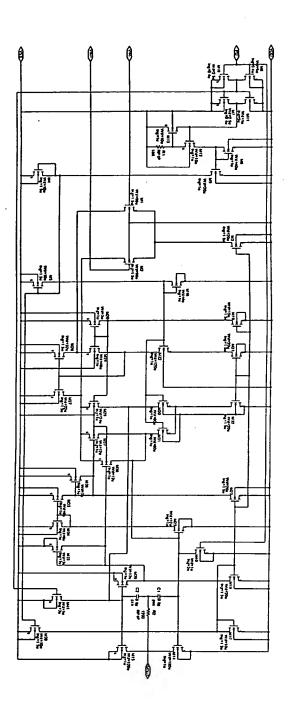
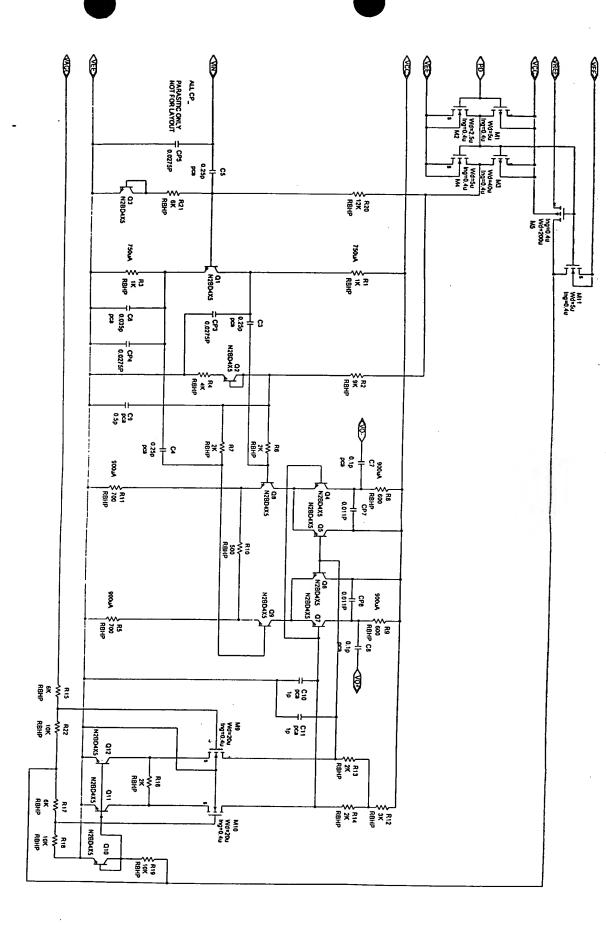


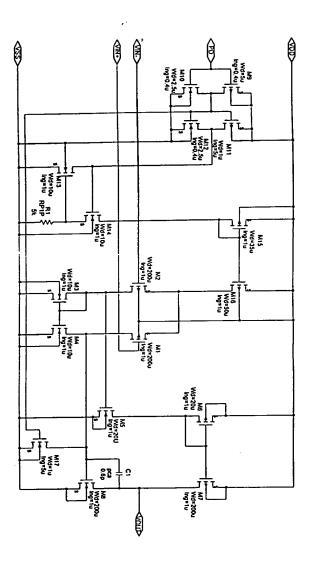
FIG. 108

Fzs. 109





FEG. 110



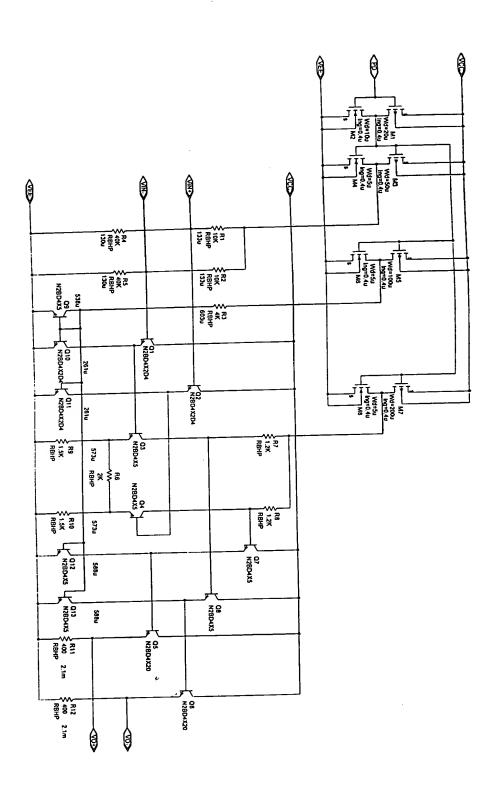
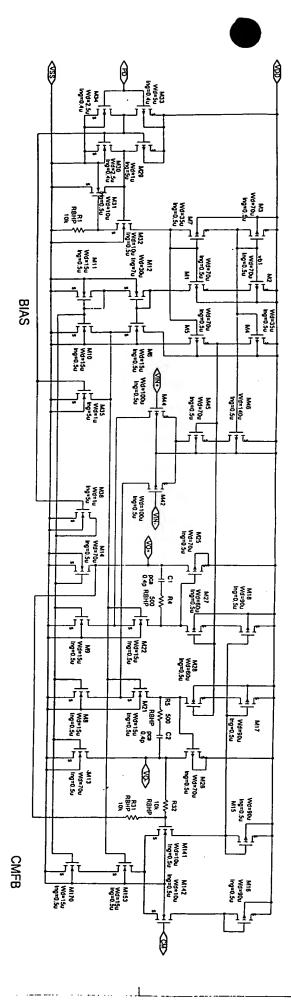
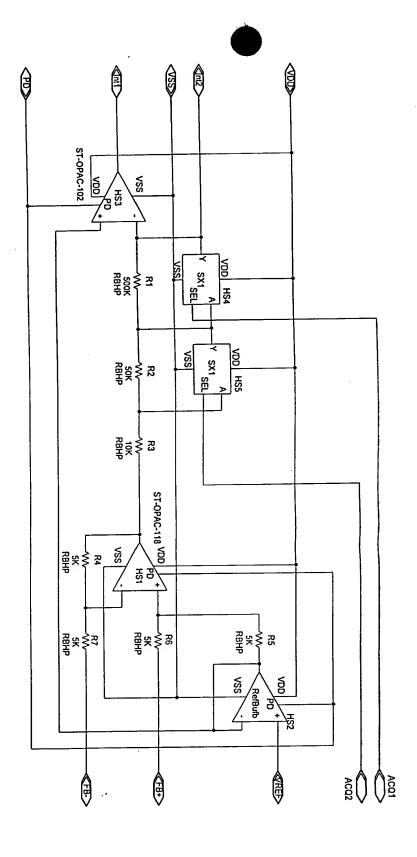
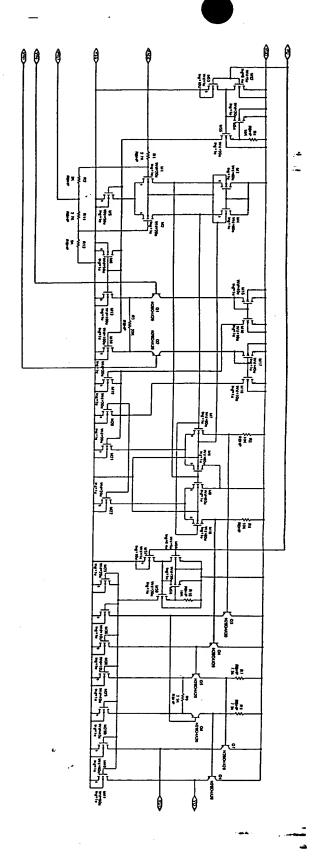


FIG. 112

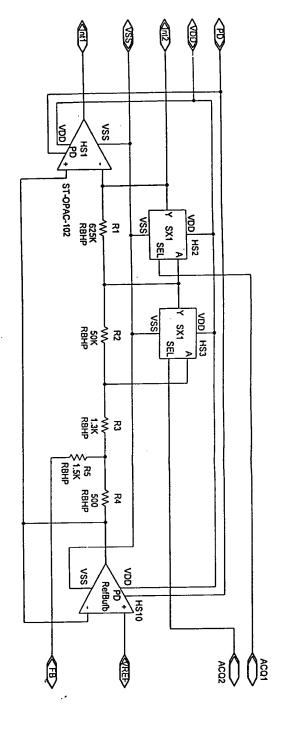




FzG. 114



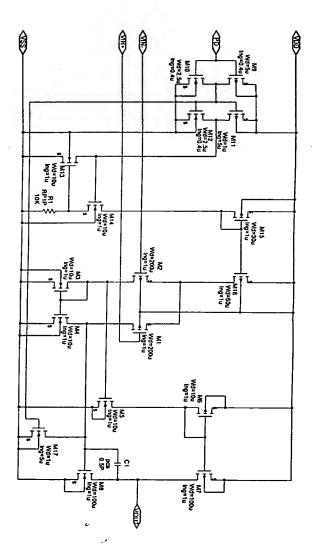
16. 115



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FIG. 116





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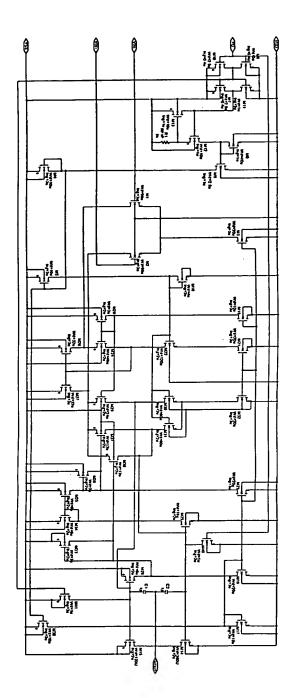
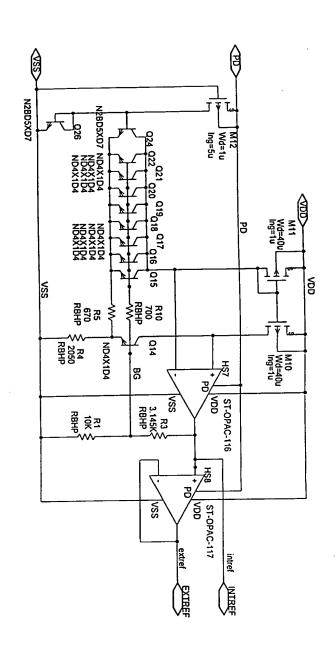
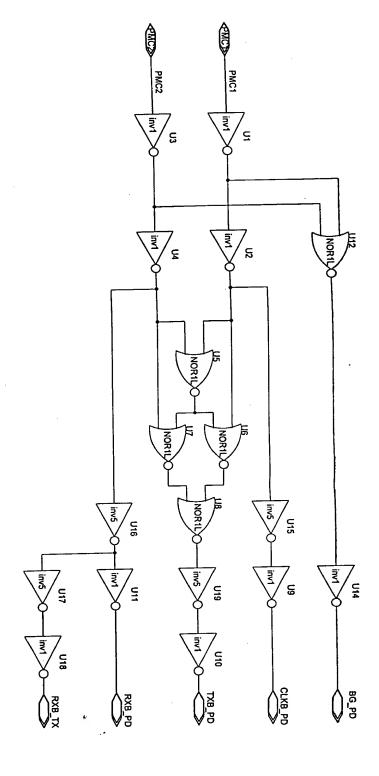


FIG 118

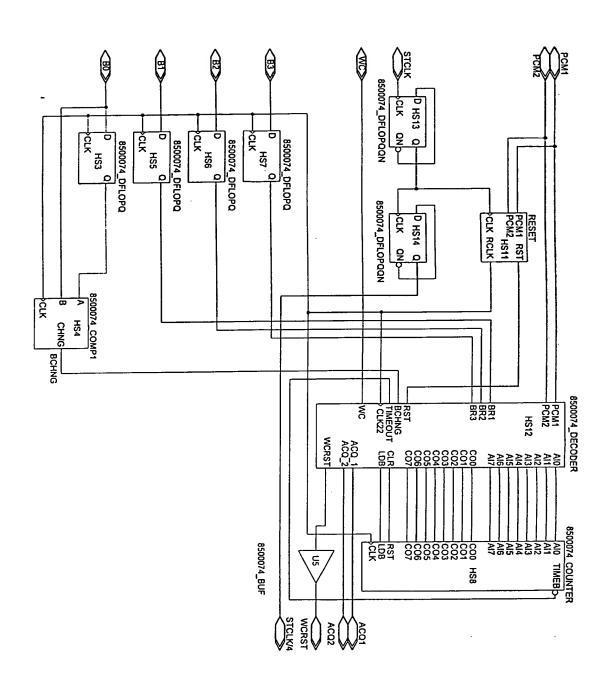
 i^{-1}

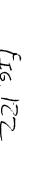


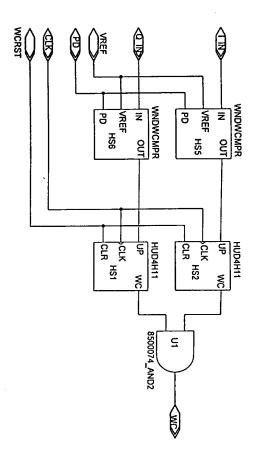
IG. 119

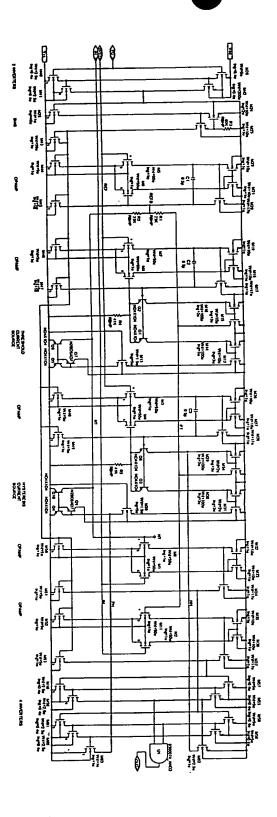


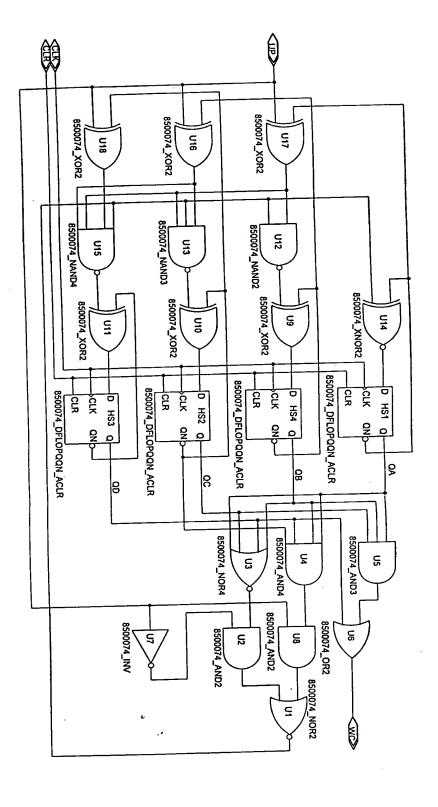
ZG: 120











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76.124

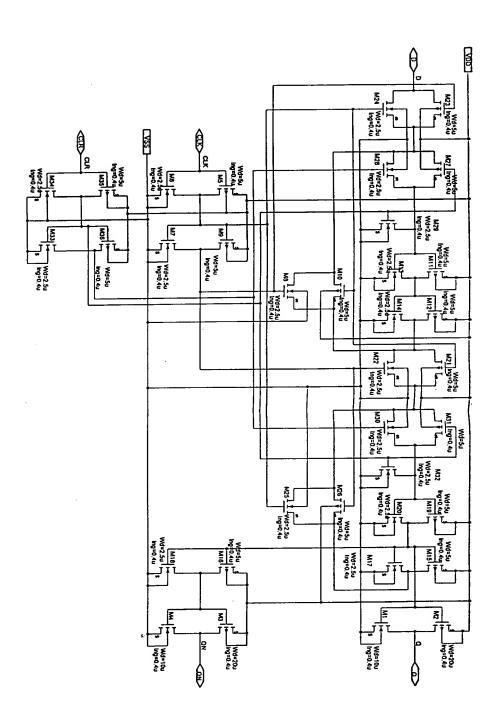


FIG. 125

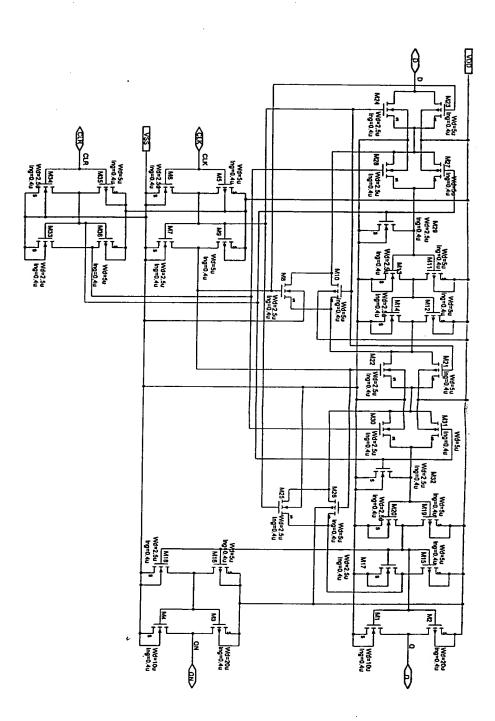
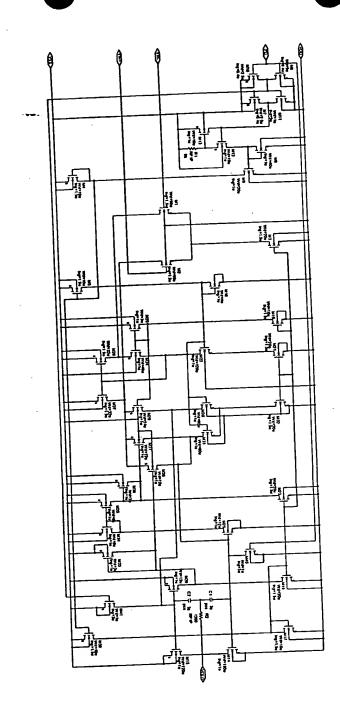
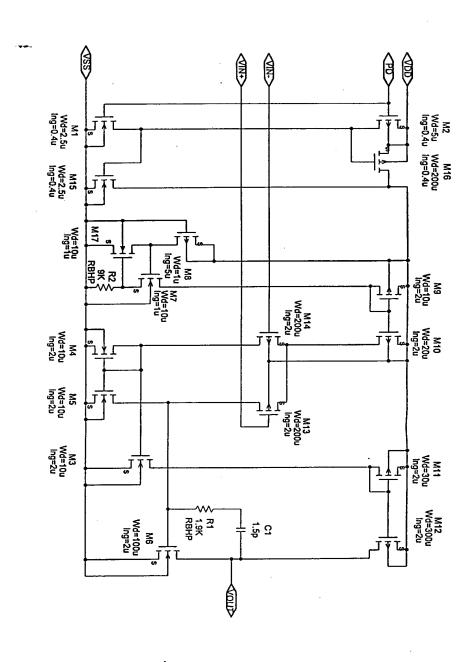


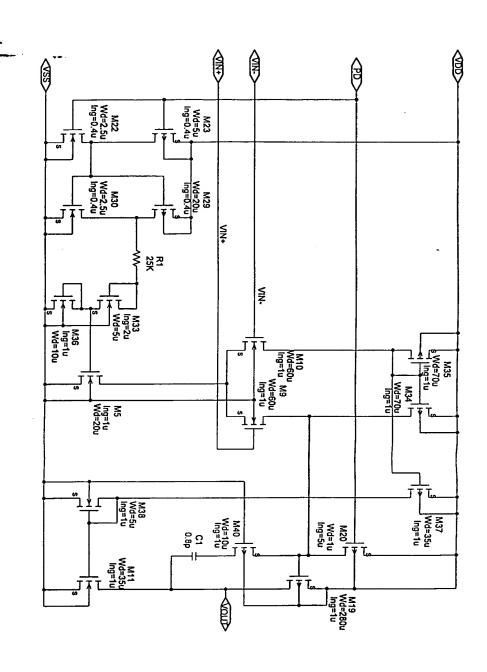
FIG 126

FIG. 127





Fec. 128

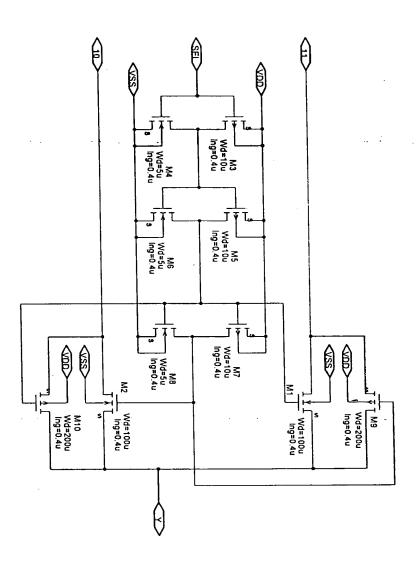


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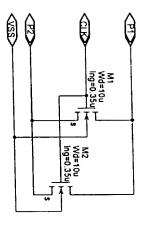
FIG. 129

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IC 131



Fzz 132

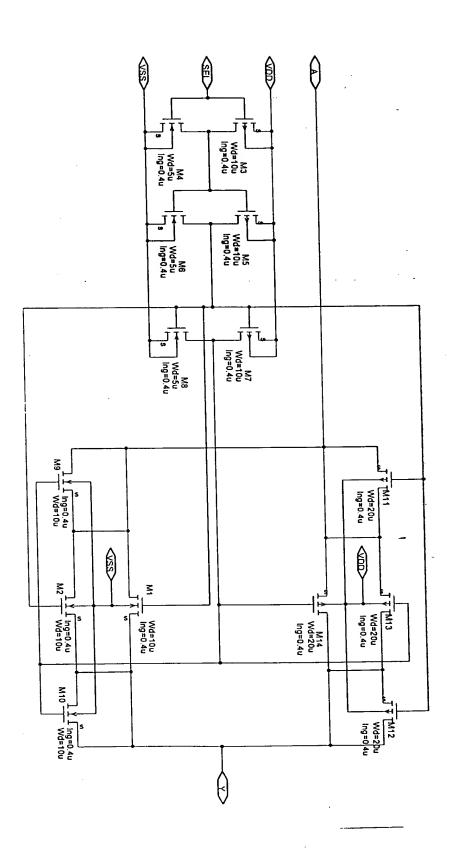
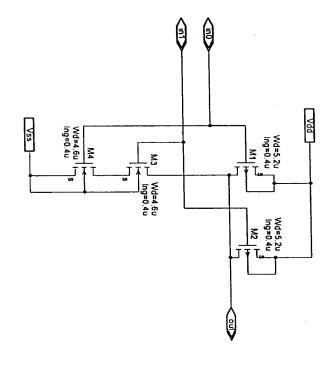
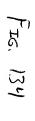
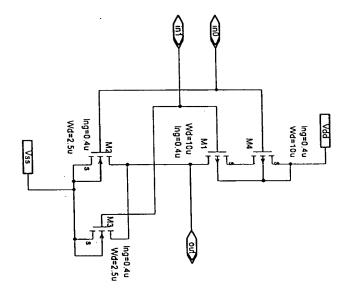


FIG. 133

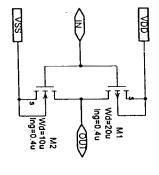


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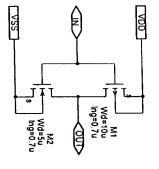




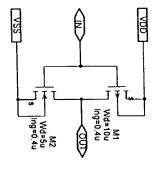
IC 135



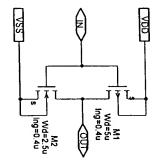
IG. 136



IG 137

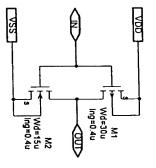


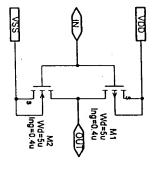
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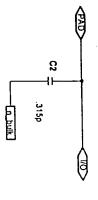


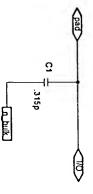
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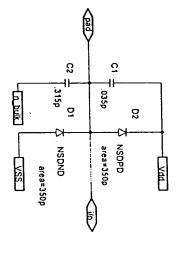
Fic 139

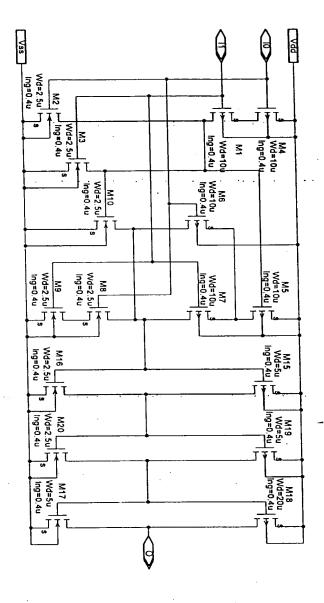




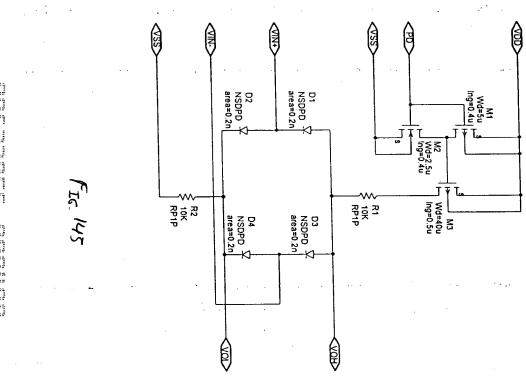




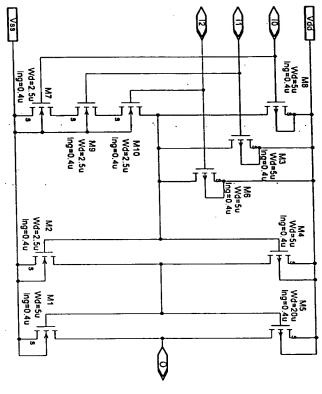


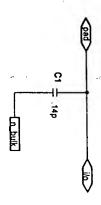


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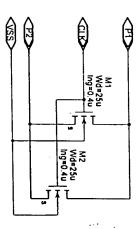


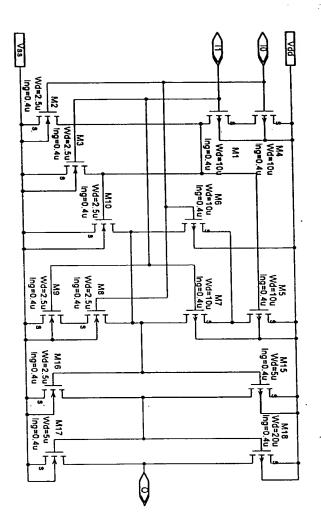
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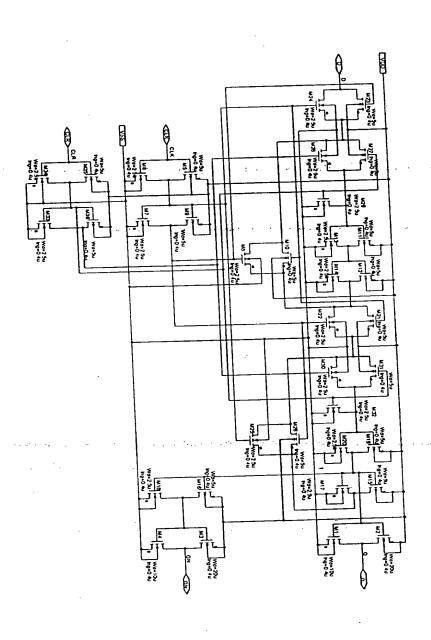




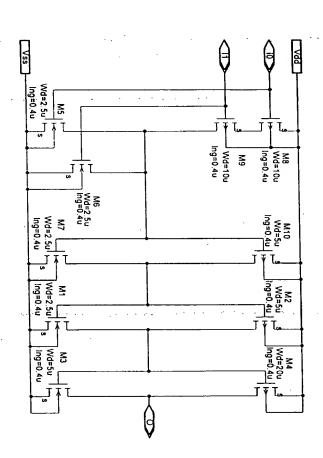
15 HB



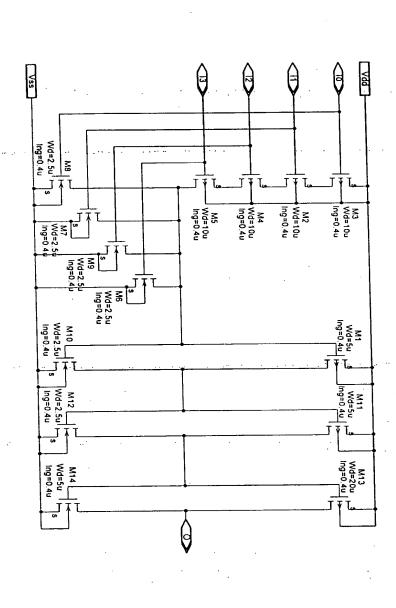




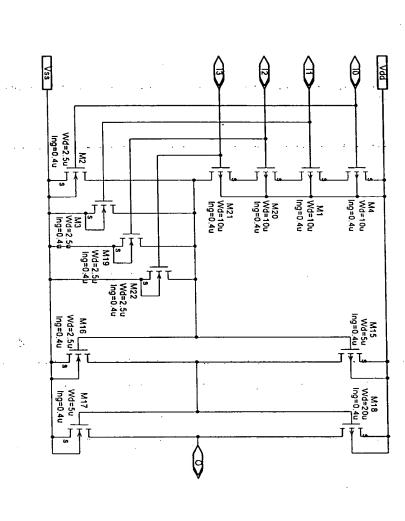
FIC. 150



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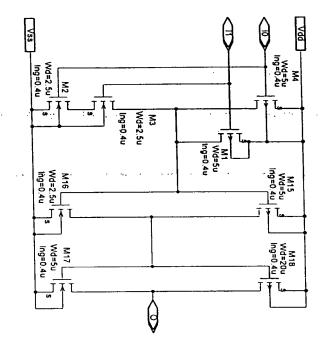
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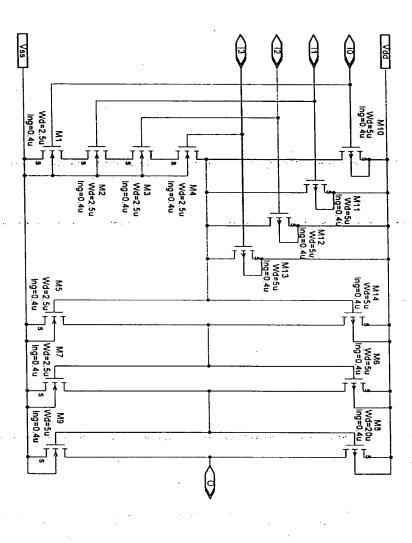
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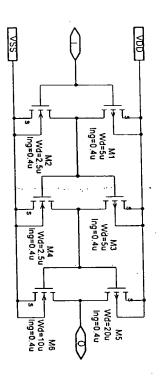


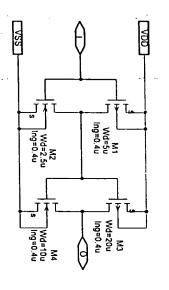




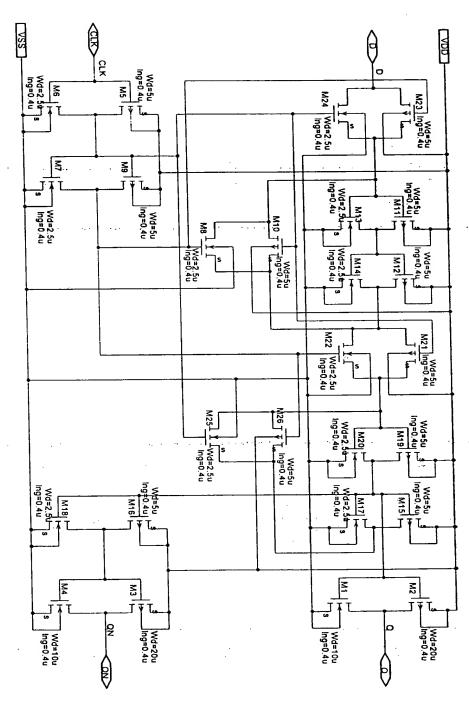


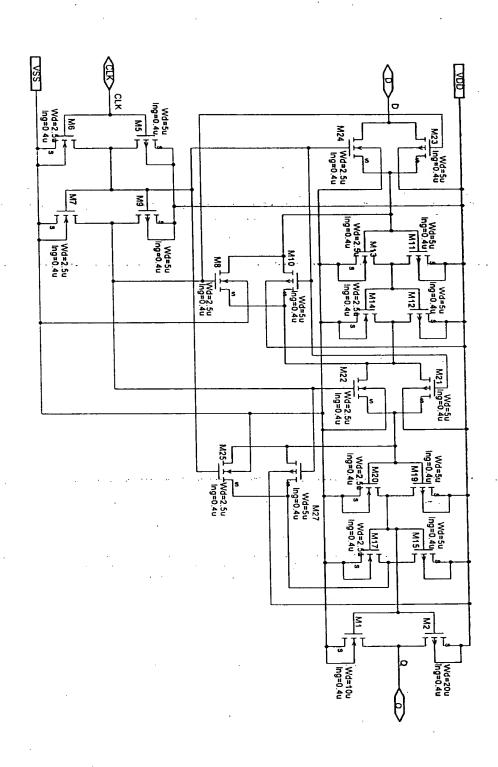
TEC. 136





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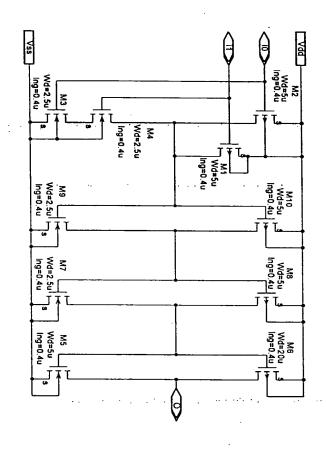


FIG 161